

digital label &
decal press **2**

User's Manual

Notices

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Printing History

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FCC Compliance Statement:

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For Users in the United States:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Use of a shielded cable is required to comply with the Class A limits of Part 15 of the FCC Rules.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate and/or obtain warranty service for this equipment.

For Users in Canada:

This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out on the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

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Introduction

1

Thank You...

...for choosing the Digital Label and Decal Press 2. It has been designed to provide you with stunning, high-quality color output on durable adhesive-backed paper, vinyl, polyester, and even heat transfer material. It offers many features which allow you to simultaneously print and cut professional-quality labels, decals, signs, photos, and much more — quickly and easily!

A. HOW YOUR DIGITAL PRESS WORKS

The digital press utilizes two different, yet closely related printing technologies to achieve its remarkable output — thermal transfer and dye-sublimation.

Thermal Transfer

Thermal transfer is a process which uses a resin- or wax/resin-based ribbon roll as a carrier for transferring color to either ribbons' appropriate type of print media (see Section 4 for more information on these ribbons and the appropriate print media for each). Such ribbons are available in single spot colors and/or in a paneled form which includes each of the yellow, magenta, and cyan process colors on the same ribbon roll. By providing each of the process colors, paneled ribbons allow you to conveniently produce full-color images automatically, from a single ribbon.

As the ribbon and print media pass simultaneously beneath the Printhead, thousands of thermal elements within the Printhead melt the colored inks, thus transferring thousands of tiny colored dots from the ribbon onto the print media. If using a paneled ribbon, the print media automatically makes a separate pass for each colored panel on the ribbon. By combining different colored dots from each ribbon panel in different combinations (this process is called “dithering”), your digital press is able to print up to 16.7 million colors.

Dye-Sublimation

Dye-sublimation is similar to thermal transfer in that it still involves a paneled, multi-pass process beneath the same thermal Printhead. The difference, however, lies within the special dye-sublimation ribbon and print media and in the transfer process itself.

Unlike a thermal transfer ribbon, each colored panel on a dye-sublimation ribbon is composed of a colored dye rather than a colored ink. When the dyes on the ribbon are heated beneath the thermal Printhead, they vaporize and diffuse into the surface of the special dye-receptive print media. By varying the heat intensity of each thermal element within the Printhead, the digital press is able to change the value and hue of each transferred dot of color. This results in the blending of one colored dot into the next, producing continuous-tone, photo-realistic, color-accurate images with no dithering.

B. SPECIAL FEATURES

With its dual function thermal transfer/dye-sublimation color printing capability, the digital press offers you incredible printing versatility. Its wax/resin thermal transfer mode delivers fast, inexpensive color output on paper stock, while its resin thermal transfer mode prints outdoor-durable labels, signs, and decals on long-lasting vinyl or polyester media. And with its dye-sublimation mode, you get continuous-tone, photo-quality output no other color printing technology can match.

Switching back and forth between these printing methods is easy. All you do is load either the thermal transfer ribbon with the appropriate print media or the dye-sublimation ribbon and print media, and select the appropriate printing choice from within the software driver. The entire change-over process only takes about 15 to 20 seconds.

And, best of all, operation is simple and straight forward. The digital press will print from any IBM-PC® or compatible running Windows™ 95/98. This means that you can use virtually any software application running under Windows to create your custom labels or decals. Then, just import your design into the PressPrint printing software to duplicate, print, and cut as many labels as needed.

To begin using your digital press, please refer to the remainder of this manual. This User's Manual is your complete step-by-step guide to setting up and printing with your powerful, new Digital Label and Decal Press.

Safety Precautions

2

Before operating the unit, please read the following safety precautions carefully.

WARNINGS

CAUTION!

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE FRONT, TOP, SIDE, OR REAR PANELS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

- Operate the unit only on 110-120 VAC, 50/60 Hz, if operating within the United States or Canada. For printers that have been shipped outside of the United States and Canada, operate the unit only on 220-240 VAC. If you have any doubt as to whether you have a unit with the correct voltage rating for your country's power supply, DO NOT ATTEMPT TO USE THE UNIT. Contact your dealer or the factory.
- Stop operation immediately if any liquid or solid object should fall into the cabinet. Unplug the unit and have it checked by qualified service personnel.
- Do not disassemble the cabinet. Refer servicing only to qualified personnel.

Sicherheitsmaßnahmen

Vor Inbetriebnahme bitte die folgenden Sicherheitsmaßnahmen beachten.

SICHERHEITSHINWEISE

VORSICHT!

ZUR VERHÜTUNG VON FEUERGEFAHR ODER STROMSCHLÄGEN DAS GERÄT VOR REGEN ODER FEUCHTIGKEIT SCHÜTZEN. UM DIE GEFAHR VON STROMSCHLÄGEN ZU VERHINDERN, KEINE GERÄTEABDECKUNGEN ABNEHMEN. DAS GERÄT ENTHÄLT KEINE TEILE, DIE VOM BENUTZER GEWARTET WERDEN KÖNNEN. WARTUNGSARBEITEN DÜRFEN NUR VON QUALIFIZIERTEM FACHPERSONAL DURCHGEFÜHRT WERDEN.

- Innerhalb der USA und Kanada das Gerät nur mit 120 V Wechselstrom und 60 Hz betreiben. Drucker, die außerhalb der USA oder Kanada verwendet werden, dürfen nur mit 230/250 V Wechselstrom betrieben werden. Wenn Sie nicht sicher sind, ob Ihr Gerät für die in Ihrem Land verwendete Nennspannung ausgelegt ist, **DAS GERÄT NICHT IN BETRIEB NEHMEN**. Wenden Sie sich in diesem Fall an Ihren Händler oder den Hersteller des Gerätes.
- Den Betrieb sofort unterbrechen, wenn ein Gegenstand in das Gehäuse gefallen oder Flüssigkeit eingedrungen ist. Den Netzstecker ziehen und das Gerät von qualifiziertem Wartungspersonal überprüfen lassen.
- Keine Gehäuseteile abnehmen. Wartungsarbeiten nur von qualifiziertem Fachpersonal durchführen lassen.

Consignes de sécurité

Avant d'utiliser l'appareil, prière de lire attentivement les consignes de sécurité suivantes.

AVERTISSEMENTS

ATTENTION !

POUR EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A LA PLUIE OU A L'HUMIDITE. POUR EVITER TOUTE DECHARGE ELECTRIQUE, NE PAS RETIRER LES PANNEAUX AVANT, SUPERIEUR, LATERAUX OU ARRIERE. NE PAS TENTER DE REPARER SOI-MEME LES PIECES A L'INTERIEUR DE L'APPAREIL. CONFIER L'ENTRETIEN DE L'APPAREIL A UN PERSONNEL QUALIFIE.

- Faire fonctionner l'appareil uniquement sur courant alternatif de 120 V, 60 Hz aux Etats-Unis ou au Canada. Pour les imprimantes expédiées en-dehors des Etats-Unis et du Canada, faire fonctionner l'appareil uniquement sur courant alternatif de 230/250 V. En cas de doute sur la tension nominale du bloc d'alimentation local, **NE PAS TENTER D'UTILISER L'APPAREIL**. Contacter le distributeur ou l'usine.
- Arrêter immédiatement le fonctionnement si un liquide ou un solide venait à s'infiltrer à l'intérieur de l'armoire. Débrancher l'appareil et le faire vérifier par un personnel qualifié.
- Ne pas démonter l'armoire. Confier l'entretien de l'appareil à un personnel qualifié.

Precauciones de seguridad

Antes de operar la unidad, por favor, lea detenidamente las siguientes precauciones de seguridad.

ADVERTENCIAS

¡PRECAUCION!

PARA EVITAR PELIGROS DE INCENDIO O CHOQUE ELECTRICO, NO EXPONGA LA UNIDAD A LA LLUVIA NI A LA HUMEDAD. PARA REDUCIR EL RIESGO DE CHOQUE ELECTRICO, NO quite los paneles delantero, superior, laterales ni trasero. El interior no tiene piezas reparables por el usuario. Para servicio de reparación y mantenimiento, solicite la atención de un técnico de servicio autorizado.

- Opere la unidad sólo a 120 VCA, 60 Hz, si la opera dentro de los Estados Unidos o Canadá. Para las impresoras que han sido enviadas fuera de los Estados Unidos y Canadá, opere la unidad sólo a 230/250 VCA. Si no está seguro de que su unidad está especificada con el régimen correcto de voltaje para la corriente de su país, **NO INTENTE USAR LA UNIDAD**. Póngase en contacto con su distribuidor o con la fábrica.
- Detenga la operación inmediatamente si algún líquido u objeto sólido cayera en el armario. Desenchufe la unidad y hágala revisar por un técnico de servicio autorizado.
- No desarme el armario. Para servicio de mantenimiento, solicite la atención de un técnico autorizado.

Precauzioni per la Sicurezza

Prima di dare inizio al funzionamento dell'unità siete pregati di leggere attentamente le seguenti precauzioni di sicurezza.

AVVERTENZE

ATTENZIONE!

ONDE EVITARE IL PERICOLO DI INCENDIO O SCOSSA ELETTRICA, NON ESPORRE L'UNITÀ ALLA PIOGGIA OD UMIDITÀ. EVITARE DI RIMUOVERE I PANNELLI ANTERIORE, SUPERIORE, LATERALE O POSTERIORE PER RIDURRE IL RISCHIO DI SCOSSA ELETTRICA. LA MANUTENZIONE DELLE PARTI INTERNE DELL'UNITÀ NON È DI COMPETENZA DELL'UTENTE. AI FINI DELLA RIPARAZIONE RIVOLGERSI AL PERSONALE DI COMPETENZA.

- Negli Stati Uniti e Canada l'unità funziona solo con alimentazione a 120 VAC, 60 Hz. Le stampanti destinate ad altri paesi funzionano solo con alimentazione di 230/250 VAC. Qualora non abbiate la certezza che il trasformatore e la spina di cui disponete siano quelli adeguati all'alimentazione erogata nel vostro paese, **NON USARE L'UNITÀ**. Rivolgersi piuttosto al rivenditore o la fabbrica del luogo.
- Arrestare immediatamente il funzionamento dell'unità qualora si verifichi un versamento di liquido o la caduta di un oggetto solido al suo interno. Staccare la spina e rivolgersi al personale di assistenza qualificato.
- Non smontare la struttura dell'alloggiamento. Le riparazioni vanno effettuate

Precauções de Segurança

Antes de operar a unidade, por favor leia cuidadosamente as seguintes precauções de segurança.

ADVERTÊNCIAS

CUIDADO!

PARA EVITAR O PERIGO DE INCÊNDIO OU CHOQUE ELÉTRICO, NÃO EXPONHA A UNIDADE À CHUVA OU UMIDADE. PARA REDUZIR O RISCO DE CHOQUE ELÉTRICO, NÃO REMOVA OS PAINÉIS DIANTEIRO, SUPERIOR, LATERAIS OU TRASEIRO. NÃO HÁ PEÇAS NO INTERIOR QUE POSSAM SER CONSERTADAS PELO USUÁRIO. PARA MANUTENÇÃO, PEÇA ASSISTÊNCIA A UM TÉCNICO QUALIFICADO.

- Opere a unidade somente em 120 VAC, 60 Hz, se estiver operando nos Estados Unidos ou Canadá. Para impressoras enviadas para fora dos Estados Unidos e Canadá, opere a unidade somente em 230/250 VAC. Se você tiver dúvidas a respeito da graduação correta de voltagem para a alimentação de energia do seu país, **NÃO TENHA USAR ESTA UNIDADE**. Entre em contato com seu revendedor ou com a fábrica.
- Se qualquer líquido ou objeto cair dentro do gabinete, páre a operação imediatamente. Desligue a unidade da tomada e chame um técnico qualificado.
- Não desmonte o gabinete. Para manutenção, peça assistência somente a um técnico qualificado.

安全預防措施

在使用本機件前請先詳讀下列安全預防措施。

警告

注意！

不要使本機件淋雨或浸濕以免發生火警或觸電事故，不要拆去本機件前、後頂面或兩邊板壁以減少觸電危險事件。本機件內部並無用戶可以自行維修的零件。若需要維修應請來合格的維修人員。

- 在美國及加拿大境內使用時，應將本機件連接於110-120伏50-60赫交流電源。已運送出美國及加拿大國境的打印機應連接於220-240伏交流電源。如對本機件電路裝配是否適用於所在地的電源有任何疑問則切勿使用本機件。請先與承銷商或供應廠商聯絡。
- 如有任何液體或固體物件進入機盒應立即停止操作並拔出插頭再請合格維修人員前來檢查。
- 不可拆開機盒，應由合格人員從事維修工作。

安全注意事項

機械を操作する前に次の安全注意事項を熟読してください。

ワーニング

注意！

火災や電撃事故防止のために、機械を雨水や湿気に晒さないでください。電撃リスクを減少するために、前、上、横、後各々のパネルを取り外してはいけません。ユーザーが自分で修理出来る部品は入っていないので、修理は専門の修理員に依頼してください。

- 米国及びカナダ国内では、110-120VAC、50/60HZでのみ操作してください。米国及びカナダ以外に出荷されたプリンターは220/240VACでのみ操作してください。自国の電源用の適切な電圧定格になっているかどうか疑わしい場合は、機械を使用せずに、販売店か工場に御問い合わせください。
- キャビネットに液体または固体物が落ち込んだ場合は、直ちに操作を中断し、プラグを抜いて、専門の修理員にチェックしてもらってください。
- キャビネットを分解しないでください。修理はかならず専門の修理員に依頼してください。

إحتياطات الأمان

قبل تشغيل الآلة يجب قراءة إحتياطات الأمان الآتية بدقة.

تحذيرات

إحترس!

لتجنب وتقليل أخطار الحريق أو الصدمة الكهربائية ، لا تعرض الآلة للمطر أو الرطوبة . لتجنب خطر أي صدمة كهربائية؛ لا تزيل غطاء الخزانة الأمامي أو العلوي أو الخلفي. لا يصح للمستعمل محاولة ضبط أو تغيير أي قطع بالداخل ؛ بل يجب الإستعانة بمتخصصي الخدمة.

- يتم تشغيل الآلة بتيار كهربائي ١١٠-١٢٠ فولت ، ٦٠/٥٠ هرتز فقط في حالة استعمالها في الولايات المتحدة أو كندا. أما الآلات الطباعة المشحونة خارج الولايات المتحدة وكندا، فإنها تتطلب تياراً كهربائياً ٢٢٠-٢٤٠ فولت. **لا تستعمل الآلة** إذا كان لديك أي شك في أن مواصفات الكهرباء المتوفرة في بلد التشغيل لا تطابق مواصفات الكهرباء المطلوبة للآلة. إتصل بوكيلك أو بالمصنع.
- أوقف التشغيل فوراً إذا لاحظت تساقط أي سائل أو مادة صلبة بداخل الخزانة. أفصل الآلة عن الكهرباء وأطلب من متخصص الخدمة الكشف عليها.
- لا تفك خزانة الآلة. أستعين بمتخصصي الخدمة فقط.

Getting Started

3

A. CHOOSING A GOOD LOCATION

Place the unit in a location with adequate air circulation to prevent internal heat build up.

- Use the dimensions specified in Section 10 as a guideline for the minimum clearances to the unit.

NOTE: *Allow for adequate clearance above the unit to accommodate the height of the unit with its cover open.*

- Do not place the unit in a location where the ventilation holes located on the rear of the unit could become blocked.
- Do not install unit near heat sources such as radiators or air ducts, or in a place subject to direct sun-light, excessive dust, mechanical vibration or shock.

B. ABOUT MOISTURE CONDENSATION

If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense inside the unit. Should this occur, print quality may not be optimum. Leave the unit turned off in a warm, dry room for several hours before using. This will allow the moisture to evaporate.

C. UNPACKING AND INSPECTION

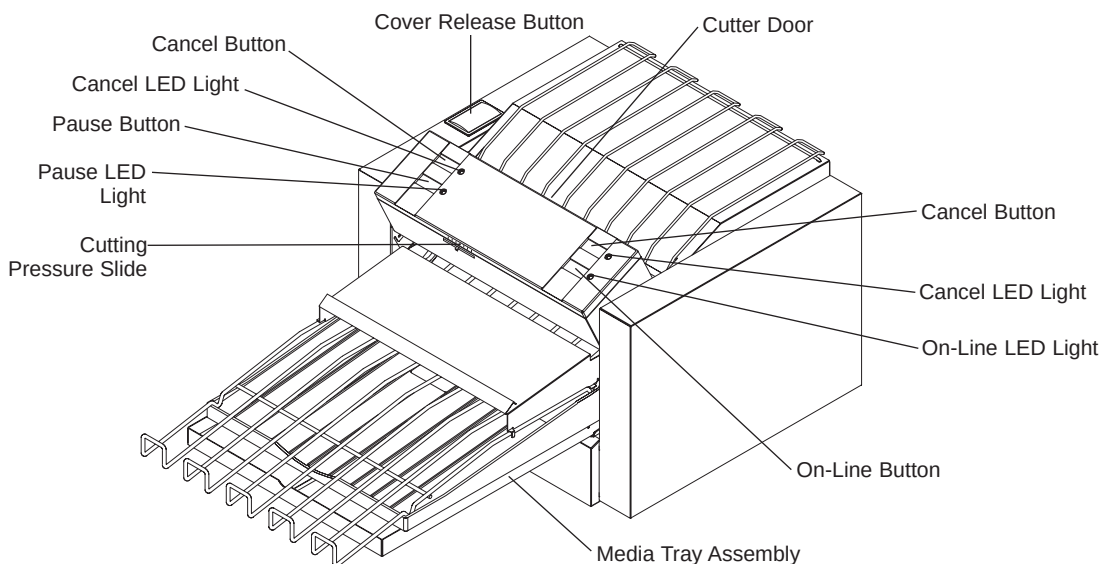
While unpacking your digital press, inspect the carton to ensure that no damage has occurred during shipping. Make sure that all supplied accessories are included with your unit. The following items should be included:

- Power Cord
- Interface Cable
- Media Supply Tray
- Media Tray Cover
- Media Output Rack
- Ribbon Cartridge (1)
- Cutter Blade Holder with Blade (1)
- Printer Driver Software
- 32-Bit Print Spooler Software
- Warranty Statement and Registration Card
- This manual and other printed information

Save the carton and packing materials. They will come in handy when transporting the unit.

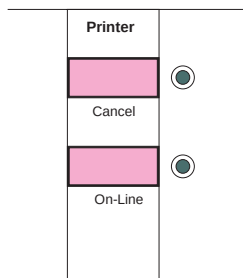
D. IDENTIFYING THE PARTS

This illustration shows the features found on the front of your Digital Label and Decal Press.



Notice that the control panel of your digital press is essentially divided in half. One half provides controls for the Printer functions and the other half for the Cutter functions. The reason for this, is that each of these functions works independently of the other. This means that if the print job is canceled, for example, the cutter will continue to cut and vice versa. The following describes the controls for each function:

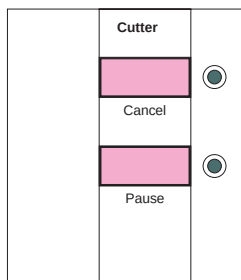
Printer Controls



The **On-Line** Button takes the printer on- and off-line. When the printer is on-line, the On-Line LED light will turn ON. When the printer is off-line, the On-Line light will turn OFF. The printer must have its On-Line light ON in order to print. When flashing, the On-Line light also serves to indicate a print error condition. Such conditions are discussed in Section 9 of this manual.

The **Cancel** button cancels the print job currently being printed. In order to cancel a print job, the printer must first be taken off-line by pressing the On-Line button. When the printer is off-line, the On-Line light will turn OFF. After a print job is canceled, both LED lights will once again turn ON. Any print media remaining in the printer will automatically eject up and out through the cutter. If the cutter is busy cutting, the printer will wait to eject the media until after the cut job is complete.

Cutter Controls



The **Pause** Button allows the cutter to either pause or resume cutting. When the cutter is ready to cut, the Pause LED light will be OFF. When the cutter is paused, the Pause light will turn ON. The cutter can be paused at anytime during a cut job. When the Pause light is turned OFF, cutting will resume.

The **Cancel Button** cancels the job currently being cut. In order to cancel a cut job, the cutter must first be paused by pressing the Pause button. When the printer is paused, the Pause light will turn ON. After a cut job is canceled, the Pause light will turn OFF and the Cancel light will once again turn ON. Any print media left within the cutter after a cut job is canceled will automatically be ejected.

IMPORTANT! *Pressing the Pause and Cancel buttons simultaneously will completely cancel and reset both the printer and cutter functions. This should be done only if you wish to clear out the unit's memory and reset it for the next print job. In most cases, any print media remaining within the printer will automatically be ejected once the unit is reset. In some cases, however, you may need to open the printer's Top Cover and manually remove the print media (see Section 8-H for instructions on manually ejecting print media).*



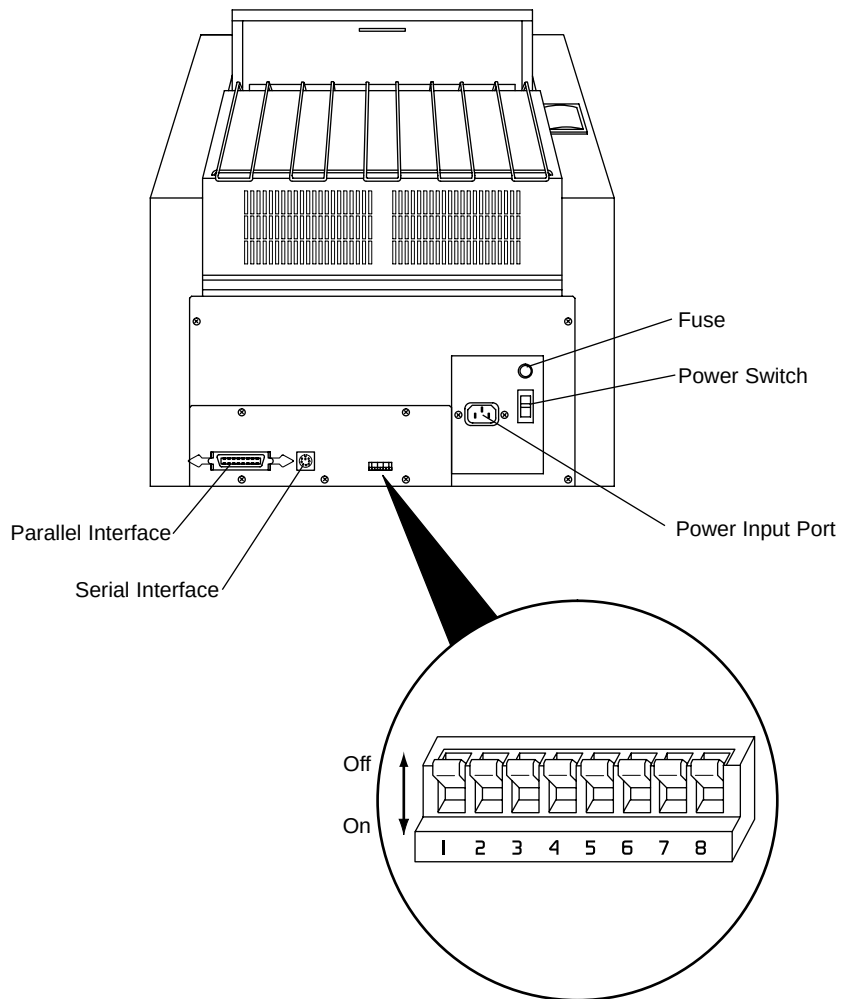
The **Cutting Pressure** slide adjusts the amount of pressure used by the cutter. It is very important that this cut pressure be adjusted properly. If cut pressure is too high, the cutter may cut all the way through the print media. This will cause premature wear on the cutting blade and may even cause the cutter to stall. If cut pressure is too low, the cutter may not cut deeply enough. This makes it difficult to remove the matrix or weed the excess print media from the finished labels. **When optimum cut pressure is set, the cutter will cut completely through the adhesive-backed portion of the print media and ever-so-slightly into the backing.**

When switching between the wide variety of print media, it will most likely be necessary to adjust the cut pressure in order to accommodate the unique characteristics of each media type. In most cases, optimum cut pressure can be determined after just one sheet of media has been cut. If cutter adjustment is required, the cut pressure can be adjusted at any time, even while print media is being cut.

The default position of the Cutting Pressure slide is in the exact center. To increase pressure, move the slide toward the positive (+) end. To decrease pressure, move the slide toward the negative (-) end. **Do not make extreme adjustments to the Cutting Pressure slide.** Always increase or decrease the cut pressure one increment at a time.

NOTE: *An additional cut pressure adjustment option is provided within the PressPrint software. This option should rarely need to be adjusted, however, since its optimum setting is preset at the factory. See Section 7-C for more information on this option.*

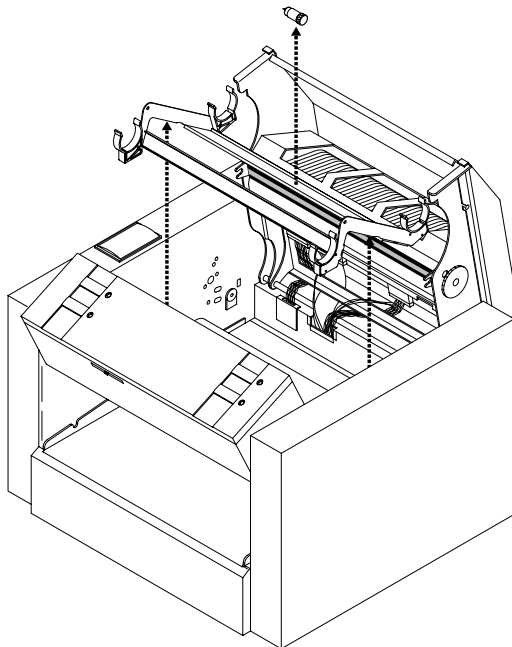
This illustration shows the input ports found on the rear panel of the unit. When connecting the unit to your computer, you will use its Parallel Interface Port. For more information on this port, please refer to Section 5-C or Appendix A.



NOTE: The Serial port and the small switches on the rear panel of the unit are for factory use only. Leave all switches in the "OFF" (up) position when operating the unit unless otherwise instructed by this manual or a factory technician.

E. REMOVING THE RIBBON CARTRIDGE AND BLADE HOLDER

A single Ribbon Cartridge and Blade Holder are included. The Ribbon Cartridge is what holds print ribbons in place inside the printer. The Blade Holder is what holds the cutter blade in place inside the cutter. For your convenience, the Blade Holder ships with a blade already installed. During shipment, these items are fastened to each other inside the unit.



Additional ribbon cartridges can be purchased to make switching between the various print ribbons more convenient. Additional cutter blades can also be purchased as needed. To remove these items from the inside of the printer, refer to the following steps:

1. Press the Cover Release Button. Allow the cover to swing up and open.
2. With the cover open, you can see the Ribbon Cartridge.
3. Remove the shipping tape from both sides of the cartridge. GRASPING EACH SIDE of the cartridge, lift it straight up and carefully remove it from the printer.
4. Remove the shipping tape fastening the Blade Holder to the Ribbon Cartridge and separate the two items. Remove the Blade Holder from its packaging, and refer to the next procedure for instructions on installing the Blade Holder into the cutter.

CAUTION!

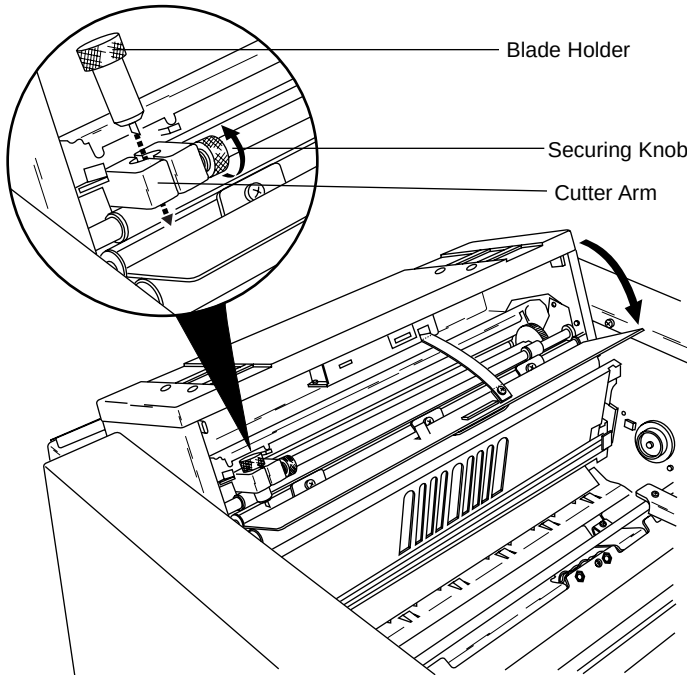


THE CUTTER BLADE IS RAZOR-SHARP AND CAN EASILY CUT YOU. BE EXTREMELY CAREFUL WHEN HANDLING THIS BLADE!

F. INSTALLING THE BLADE HOLDER

Refer to the following steps to install the Blade Holder into the cutter.

1. Open the Cutter Door by pulling down on the door's handle.
2. Locate the black, plastic Cutter Arm. This is what holds the aluminum Blade Holder in place.



3. Place the Blade Holder into the Cutter Arm and tighten the gold-colored Securing Knob by turning it toward the front of the printer. Tighten only until the Blade Holder fits securely within the Cutter Arm. To verify proper tightness, try rotating the Blade Holder clockwise within the Cutter Arm. If it rotates, the Securing Knob needs to be further tightened. **Do not over-tighten!**

You are now ready to go on to Section 4 to learn about print ribbons, print media, and how each is loaded into the printer.

Ribbons and Print Media

4

A. INTRODUCTION

As you may already know from reading Section 1, your digital press is able to produce a variety of output by using a variety of different print ribbons. Each of these ribbons is unique, and each requires its own compatible print media. To make it easy for you to remember which ribbons are to be used with which print media and which type of output each set of print supplies will produce, the print supplies are divided into three separate categories. These categories include #100-Series supplies, #200-Series supplies, and #300-Series supplies.

This section describes the ribbon and print media in each of these categories and explains how to install these print supplies into your digital press. This section also explains the specialty supplies which can be used to create fabric transfers, photo coffee mug transfers, prepress proofs, and full-color paper labels.

B. ABOUT RIBBONS

#100-Series Ribbons — Wax/Resin Thermal Transfer Print Method

#100-Series Ribbons utilize what is called a wax/resin thermal print method and are distinguished by their *GREEN* cores. Wax/resin inks are designed to be printed onto plain paper label stock and produce durable output that is highly scratch and smudge-resistant under most indoor conditions. These ribbons are available in spot colors only and, therefore, are intended for printing economical one or two-color jobs. A variety of wax/resin ribbon colors are available.

Each ribbon has a length of 105 meters, which allows you to print up to 200 sheets worth of output. The maximum printable area for these ribbons is 11.71" x 17.3" (297 x 439mm). All #100-Series ribbons must be used only in conjunction with the #100-Series plain paper label stock which is distinguished by a *GREEN-and-WHITE* package cover sheet (see Part E of this section for more print media information).

#200-Series Ribbon — Dye-Sublimation Print Method

The #200-Series Ribbon utilizes what is called a dye-sublimation print method and is distinguished by its *GRAY* cores. This ribbon is designed to print onto special dye-receptive polyester label stock and produces durable labels and decals that are color-accurate when used with the optional color matching software.

This ribbon is in a convenient paneled format which includes the three process colors of yellow, magenta, and cyan, along with a clear overlay panel which makes printed images more durable. This means you can automatically print continuous-tone process color images with no dithering. Due to its precise color matching ability and its true photo-quality output, this ribbon is the most popular of the print ribbons.

The #200-Series ribbon provides exactly 50 sheets worth of output and has a maximum printable area of 11.71" x 17.3" (297 x 439mm). This ribbon can be used only in conjunction with the special #200-Series dye-receptive polyester label stock which is distinguished by a *GRAY-and-WHITE* package cover sheet (see Part E of this section for more print media information).

NOTE: *The #200-Series Dye-Sublimation Ribbon can also be used with the #300-Series Vinyls which offer the benefit of greater conformability. Note, however, that dye-sublimation printing on #300-Series Vinyl is slightly less durable than on the #200-Series White Polyester. If maximum print quality and durability are required, use the #200-Series Dye-Sublimation Ribbon with the #200-Series White Polyester.*

#300-Series Ribbons — Resin Thermal Transfer Print Method

#300-Series Ribbons utilize what is called a resin thermal print method and are distinguished by their *WHITE* cores. These ribbons are designed to print onto vinyl label stock and produce the digital press' most durable, longest lasting form of output.

Resin ribbons are available in both a convenient 3-color paneled format and in a variety of spot colors. The paneled ribbon allows you to automatically print full process color images. The spot color ribbons allow you to print fast, one-color jobs. Please note that process color output from the paneled ribbon will dither. Due to the nature of resin inks, resin ribbons produce very durable output that can be used in more challenging environments.

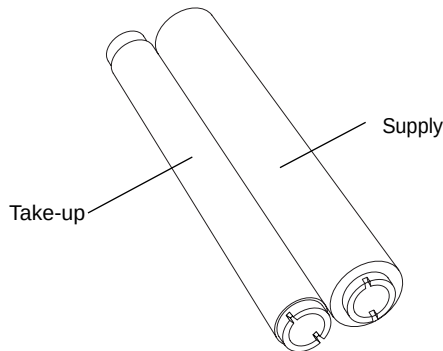
The #300-Series paneled ribbon provides 50 sheets worth of output while the spot color ribbons produce up to 200 sheets. All resin ribbons have a maximum printable area of 11.71" x 17.3" (297 x 439mm). These ribbons can be used only in conjunction with the #300-Series vinyl label stock which is distinguished by a *BLACK-and-WHITE* package cover sheet (see Part E of this section for more print media information).

For current selection and availability on all ribbons, please contact the manufacturer's Supplies Department or your nearest reseller.

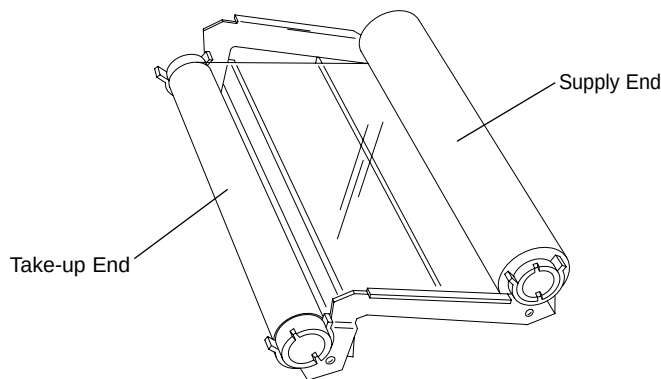
C. LOADING RIBBON INTO THE RIBBON CARTRIDGE

Whether using the included Ribbon Cartridge or using other cartridges purchased separately, all Ribbon Cartridges can be used with any of the different print ribbons. Follow these steps to load a print ribbon into a Ribbon Cartridge:

1. Remove the ribbon from its packaging. Do not touch the colored portion of the ribbon. Oil or dirt from your hands can impair print quality. Handle the ribbon only by the ends of its ribbon core.
2. The supply end of the ribbon is the end with the fresh, unused ribbon on it. The take-up end of the ribbon is the other end.



3. Place the supply end of the ribbon into the supply end of the Ribbon Cartridge as indicated. Make certain that the ribbon is fed from underneath the supply end of the ribbon roll, up and over the top of the take-up end of the ribbon roll.

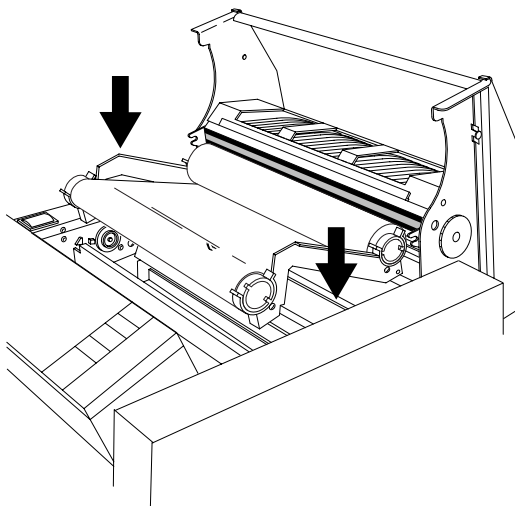


Once the ribbon is installed into the Ribbon Cartridge, it can then be placed into the printer. See Part D of this section for instructions on inserting a loaded Ribbon Cartridge into the printer.

D. PLACING THE RIBBON CARTRIDGE INTO THE PRINTER

1. Press the Cover Release Button. Allow the cover to swing up and open.
2. With the cover open, place the Ribbon Cartridge into the printer. Be certain that the supply end of the Ribbon Cartridge is oriented towards the rear of the printer.
3. Close the cover. When you start to print, the notches on the Ribbon Drive Hub will automatically engage the take-up end of the ribbon.

NOTE: When the ribbon is installed properly, the black sensing plug in the supply end of the ribbon roll should be located in the back, left-hand corner of the unit's interior. This sensing plug tells the digital press which type of ribbon is installed and **MUST** be present in order for the unit to function.



E. ABOUT PRINT MEDIA

#100-Series Plain Paper Label and Decal Stock

#100-Series plain paper stock is distinguished by a *GREEN-and-WHITE* package cover sheet and is designed only for use with #100-Series ribbons. Together, the #100-Series materials produce highly durable paper labels suitable for most indoor retail and industrial labeling applications.

#100-Series paper stock has a permanent acrylic adhesive and is available with either a white matte or white gloss finish. All #100-Series plain paper stock has a sheet size of 12" x 20" (305 x 508mm) and comes packaged in 100 sheet quantities.

#200-Series Polyester Label and Decal Stock

The #200-Series polyester stock is distinguished by a *GRAY-and-WHITE* package cover sheet and, due to its unique composition, is the only polyester stock

compatible with the #200-Series dye-sublimation ribbon. The #200-Series stock is available in white only, with a general purpose permanent adhesive ideal for adhering to corrugated, glass, metals, and some plastics. The sheet size of this print media is 12" x 20" (305 x 508mm), and it comes packaged in 100 sheet quantities.

#300-Series Vinyl Label and Decal Stock

#300-Series vinyl stock is distinguished by a *BLACK-and-WHITE* package cover sheet and is designed only for use with #300-Series ribbons. Together, the #300-Series materials produce the digital press' most durable form of output suitable for more challenging indoor/outdoor applications.

Vinyl stock is used in a wide variety of applications where an economical yet durable label or decal is required. Typical uses for vinyl materials include window and door decals, automotive decals, outdoor signs, and more. Vinyl stock is available in both a cast (white or clear) and a calendared (white) form. Cast vinyl is very thin and conforms easily to curves, over rivets, etc. Calendered vinyl is slightly thicker and is used primarily on flat surfaces. Both types of vinyl provide a permanent adhesive with a typical indoor/outdoor life of 3-5 years.

A low-tack adhesive clear vinyl is also available. This soft, removable vinyl is similar to static-cling vinyl and is perfect for window decals and other transparent applications. All #300-Series vinyl stock has a sheet size of 12" x 20" (305 x 508mm) and comes packaged in 100 sheet quantities.

#300-Series UL-Recognized Polyester Labels and Decals

A special #300-Series black ribbon is available for printing UL-recognized labels and decals onto special white gloss, silver matte, brushed silver, or brushed gold polyester stock. When used together, these materials can be used to produce rating plates and other labels and decals requiring UL listings. These materials can also be used for more general applications such as producing nameplates, faceplates, and more.

The UL ribbon provides 200 prints. The polyester stock has a sheet size of 12" x 20" (305 x 508mm), is packaged in 100 sheet quantities, and has a general purpose permanent adhesive. For best results, polyester stock should only be used with the special black UL-recognized ribbon.

NOTE: *Although the #300-Series Black UL-Recognized Ribbon provides maximum print quality when printing onto #300-Series Polyesters, you may also achieve acceptable results by using the variety of other #300-Series Resin Ribbons with the polyester materials. If doing so, increase the Intensity setting within the printer driver setup window (see Section 6-D). Note that print quality may vary when using the standard resin ribbons with the polyester materials and, therefore, is not guaranteed.*

IMPORTANT! *Always seal print media in its original packaging and place on a smooth, flat surface when not in use. Do not stack objects on top of the print media or place more than 500 sheets in a single stack. Print media must not be exposed to excess dust, heat, direct sunlight, or moisture and must not be allowed to curl or bend.*

F. SPECIALTY SUPPLIES AND APPLICATIONS

Fabric Transfers

To make fabric transfers such as T-shirts, aprons, banners, sweatshirts, mouse pads, caps and more, unique fabric transfer ribbon and paper can be used. These materials allow you to create permanent, machine washable fabric transfers in full CMYK process color. For best results, a commercial-grade heat press is highly recommended for transferring printed images.

NOTE: *The fabric transfer paper for the digital press has RED LINES on the reverse side. This red-lined fabric transfer paper is the only type of transfer paper compatible with the digital press and is not compatible with any other printers. When printing with these supplies, keep in mind that the maximum printable width is reduced to the center 9.2" (234mm) of the media. This helps keep the unit's rollers clean and free of any waxy build-up.*

Photo Coffee Mug Transfers

To make photo coffee mug transfers, simply print with the standard #200-Series dye-sublimation ribbon and a special non-adhesive dye-sublimation receiver paper. Photos, graphics, logos and much more can be easily transferred to specially-treated mugs. Transferred images are permanent and dishwasher-safe. For best results, the manufacturer's special FotoMUG! Transfer Kit or a commercial-grade mug press is highly recommended for transferring printed images.

NOTE: *When printing images that will be transferred to a mug, the overlay of the #200-Series dye-sublimation ribbon must not be applied. See Section 6-D for information on the printer driver's Disable Overlay option.*

Prepress Proofs

To make photo-quality, full CMYK process color prepress proofs, a 4-color dye-sublimation ribbon and non-adhesive backed paper are available. These materials are perfect for printing economical customer proofs of label or decal designs — even if you intend to produce the labels on a flexo press or screen printing equipment. Using the same dye-sublimation print method as the #200-Series supplies, these materials print continuous-tone, photo-quality, color-accurate images with absolutely no dithering. And since the print method is dye-sublimation, they can also be used to make photo mug transfers. Please note that since no clear overlay panel is provided, the overall print longevity of these materials is substantially less than that of the #200-Series supplies.

Wax Thermal Process Color Paper Labels

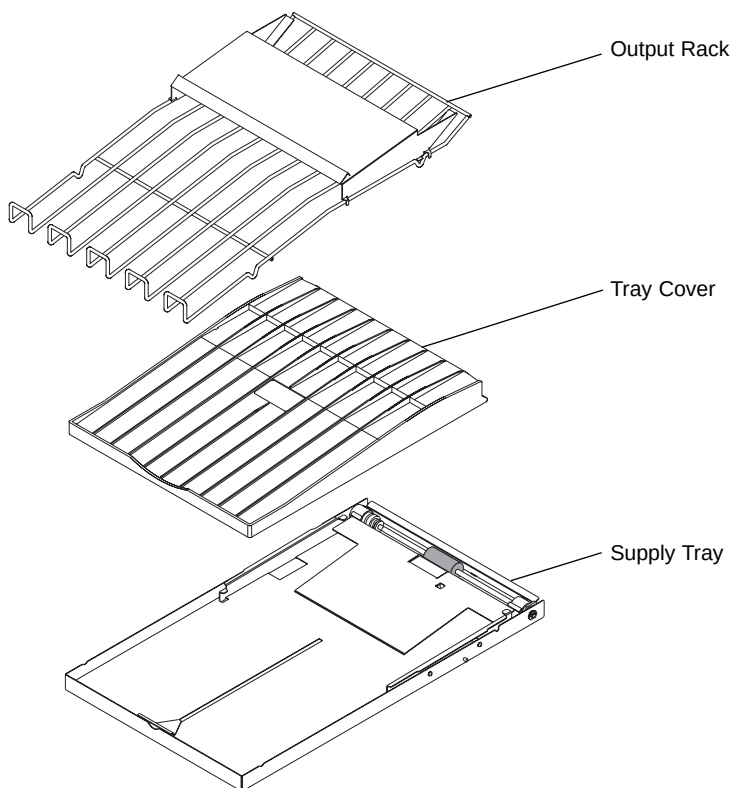
To make fast, full CMYK process color labels and decals on plain paper stock, a 4-color wax thermal ribbon is available. When used with the #100-Series plain paper label stock, this ribbon produces the most economical full-color output possible.

Use for applications where lower durability is acceptable. Please note that process colors will dither.

For current selection and availability on all print media, please contact the manufacturer's Supplies Department or your nearest reseller.

G. LOADING PRINT MEDIA INTO THE SUPPLY TRAY

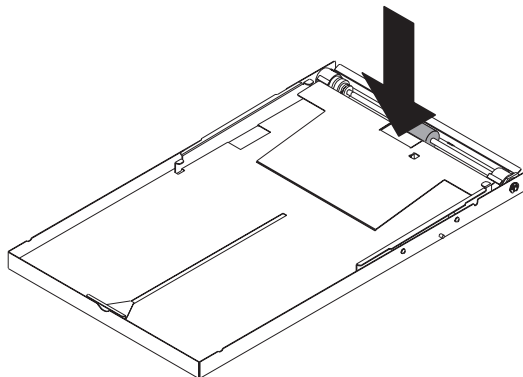
The digital press has an adjustable Media Tray Assembly which consists of three separate parts: the Supply Tray, the Tray Cover, and the Output Rack.



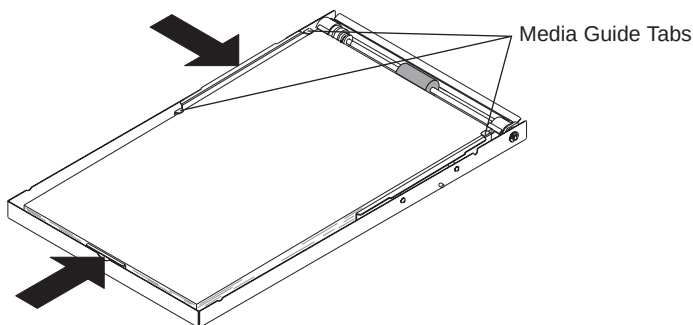
The **Supply Tray** stores the blank media to be printed. The **Tray Cover** rests on top of the Supply Tray and protects media within the Supply Tray from dust or other contaminants. It also helps guide media during the printing process. The **Output Rack** rests on top of the Tray Cover and catches finished output after it is printed and cut.

Refer to the following steps to load print media into the Supply Tray:

1. Before loading any media, depress the spring loaded panel of the Supply Tray until it is latched in its “down” position. This panel will unlatch and return to its “up” position when inserted into the printer.



2. Remove a stack of print media from its packaging. Please note that no more than about 50 sheets of print media should be loaded at a time. Do not attempt to load more than this amount.
3. Fan the stack of print media to assure that none of the sheets are sticking together. Then, neatly stack the media and check to see that it is free of bent edges. Handle the print media only along the edges and do not touch the printable side. Oil or dirt from your hands can impair print quality.
4. Place the print media — PRINT SIDE FACING DOWN — between the Media Guides of the Supply Tray. When inserted properly, the backing side of the print media will be facing up. Adjust the Media Guides snugly against the media stack. Be sure the print media fits loosely *beneath* the three Media Guide Tabs shown below. This will assure consistent feeding and printing.

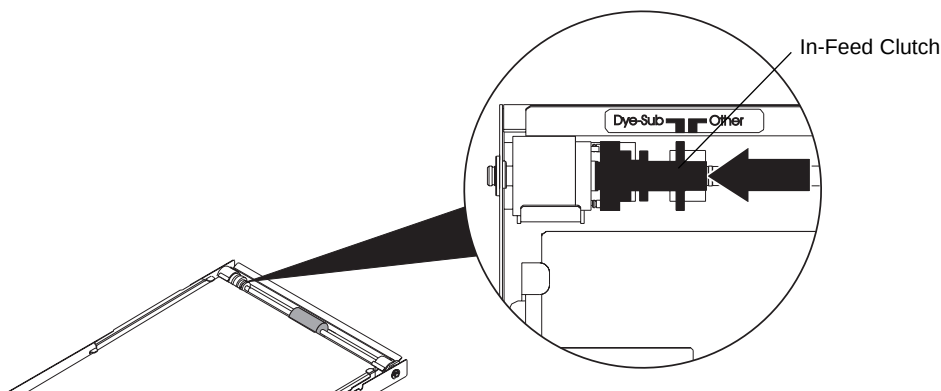


NOTE: Do not attempt to load print media on which you have already printed or which is not approved. Printing onto such media may damage the printer.

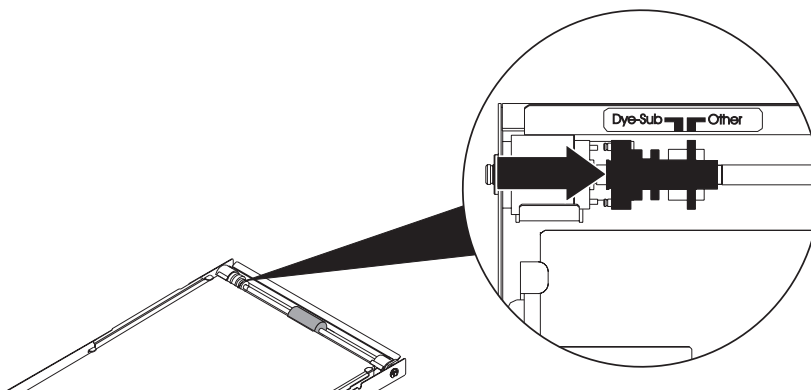
H. ADJUSTING THE SUPPLY TRAY'S IN-FEED CLUTCH

Before the Media Tray can be assembled and inserted into the printer, you must first adjust the Supply Tray's In-Feed Clutch according to the type of print media you are installing. When properly adjusted, the In-Feed Clutch help print media feed more consistently, one sheet at a time. Please refer to the following steps for instructions on when and how you should adjust this clutch.

1. The black, plastic In-Feed Clutch is located on the top left-hand corner of the Supply Tray, on the same shaft as the tray's rubber In-Feed Roller.
2. If you intend to print onto **#200-Series dye-sublimation** print media (either adhesive-backed or non adhesive-backed), move the In-Feed Clutch to the left so it is aligned with the tray label's "**Dye-Sub**" setting. To move the clutch, simply use your finger to slide it until it locks into position.



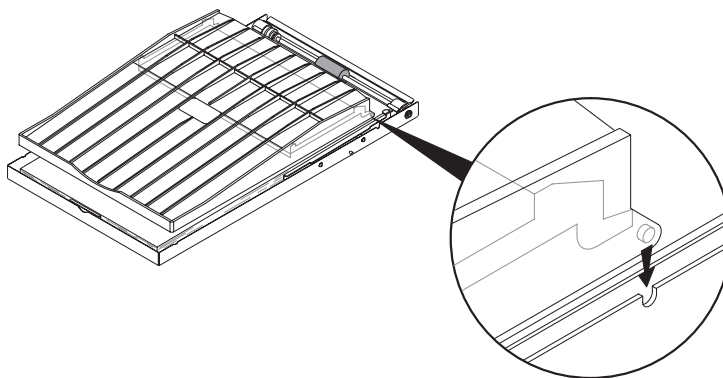
3. If you intend to print onto **#300-Series resin** or **#100-Series wax/resin** print media, move the In-Feed Clutch to the right so it is aligned with the tray label's "**Other**" setting. To move the clutch, simply use your finger to slide it until it locks into position.



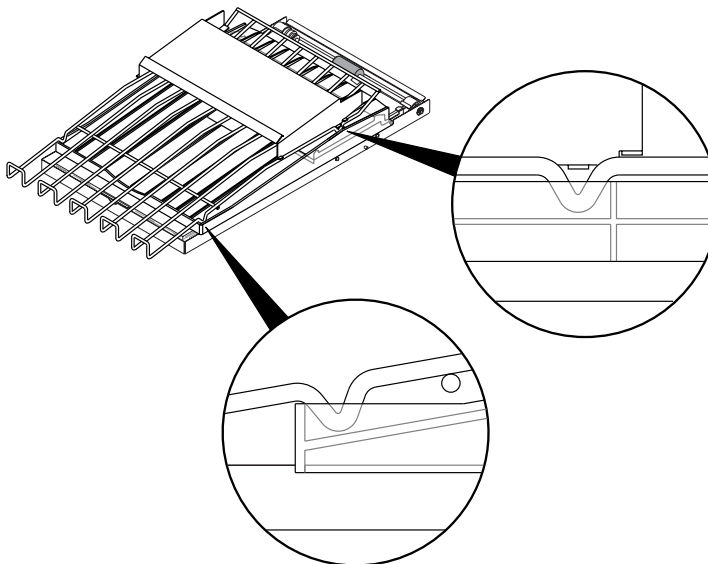
I. INSERTING THE MEDIA TRAY ASSEMBLY INTO THE PRINTER

Once media is loaded into the Supply Tray and the In-Feed Clutch is properly adjusted, the complete Media Tray Assembly can then be inserted into the unit. Refer to the following steps to assemble and insert the Media Tray Assembly.

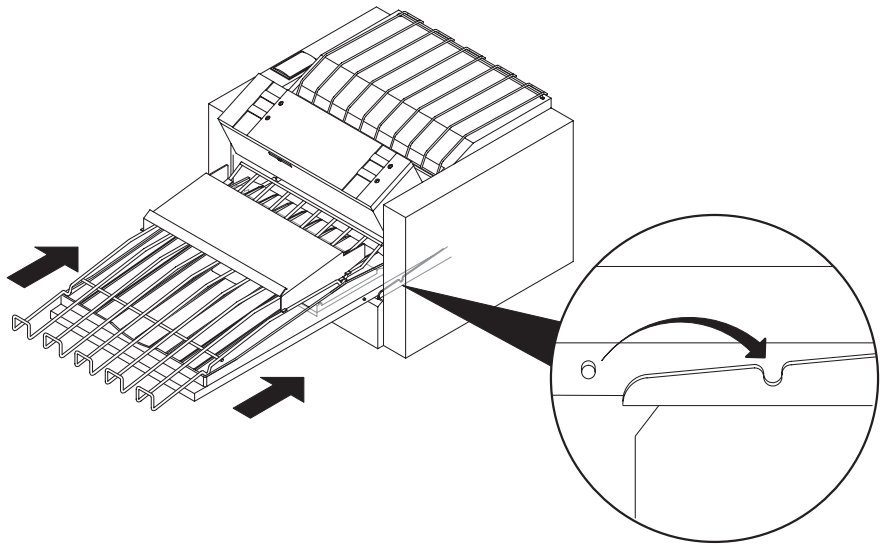
1. Place the assembly's Tray Cover onto the Supply Tray so the extensions on the front edges of the Tray Cover engage the securing notches on both sides of the Supply Tray.



2. Place the Output Rack onto the Tray Cover so it fits securely between the raised plastic edges of the tray as shown.



3. Grasp the fully assembled Media Tray Assembly and slide it into the unit until the mounting posts on both sides of the Supply Tray engage the securing notches on both sides of the unit's front interior.



As the Media Tray Assembly is inserted into the unit, you should hear its spring loaded panel automatically unlatch and spring back to its “up” position. This panel forces the media stack against the In-Feed Rollers to assure consistent feeding.

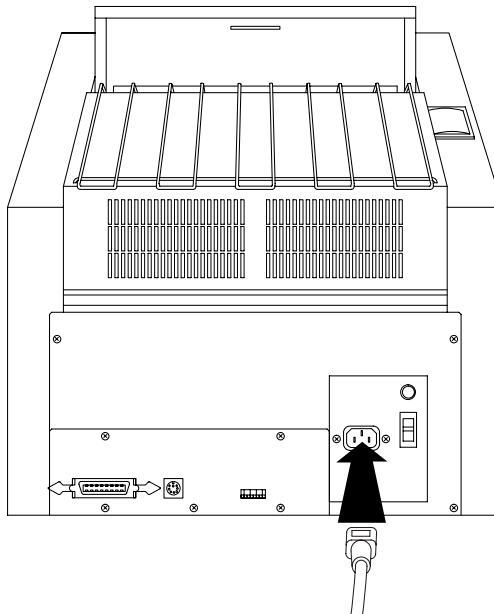
IMPORTANT! *In order for the digital press to function properly, the complete Media Tray Assembly must always remain fully assembled within the unit during printing.*

Connecting the Unit

5

A. APPLYING POWER

1. Locate the power cord supplied with your digital press.
2. With the power switch turned OFF, place one end of the power cord into the power port on the rear panel of the unit.

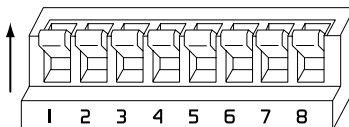


3. Place the other end of the power cord into an available wall outlet.
4. Once the power cord is connected, press the power switch located on the rear panel of the unit to turn the power ON.

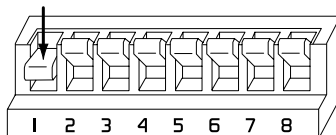
B. RUNNING THE SELF TEST

Now that print supplies are installed and power is applied, a self test should be performed to check for proper operation of the unit. The digital press is capable of doing a specific self test print for monochrome resin, 3-color resin, and dye-sublimation. To tell the digital press which type of self test you would like it to print, simply configure the small switches on the unit's rear panel accordingly.

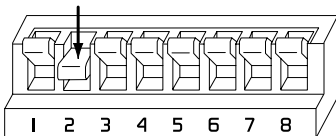
If you have a #300-Series *monochrome resin* ribbon and print media installed, leave all switches set to the default or "up" position.



If you have a #300-Series *3-color resin* ribbon and print media installed, flip *only* switch 1 down and turn the power OFF and ON to reset the unit.



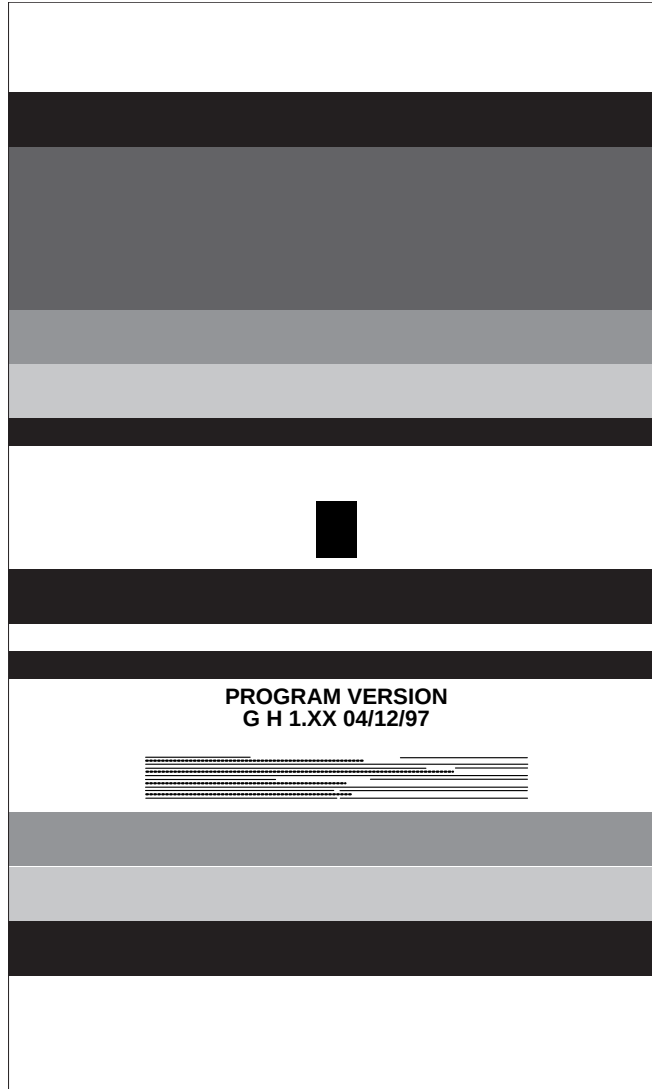
If you have #200-Series *dye-sublimation* supplies installed, flip *only* switch 2 down and turn the power OFF and ON to reset the unit.



Once you have selected the type of self test you would like to print, refer to the following steps to initiate the self test print.

1. Make sure the appropriate supplies are properly loaded, that power is ON, and that the Top Cover and Cutter Door are shut.
2. Using the "Printer" buttons on the right-hand side of the control panel, press and hold the On-Line button down. The On-Line light will turn OFF.
3. While continuing to hold the On-Line button down, press and release the Cancel button.
4. Release the On-Line button when you hear the printer's engine begin to cycle.

The digital press will both print and cut the self test image. Please note that the print quality of the self test may not be optimum. Don't worry, this is perfectly normal. The self test procedure is not intended to demonstrate print quality, but rather to verify that the digital press is mechanically sound.



Self Test Example
(Approximately 30% of actual size)

NOTE: The self test procedure in this section verifies that the unit is mechanically functioning properly. If you would like to perform a self test print which verifies your computer is properly communicating with the digital press, see the "Calibrate" description in Section 6-D.

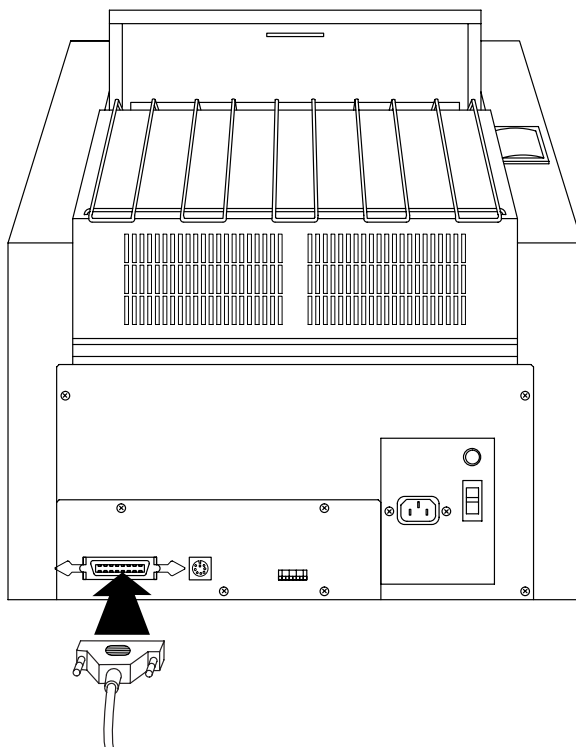
C. CONNECTING TO AN IBM-PC OR COMPATIBLE

The digital press is designed to be used with nearly any high-end IBM-PC or compatible running Windows 95/98. For best performance, a minimum of a Pentium 133 MHz computer with 32 megabytes of RAM or higher and a hard disk with at least 200 megabytes of free space is recommended. Note that processing speed will increase if additional RAM is added.

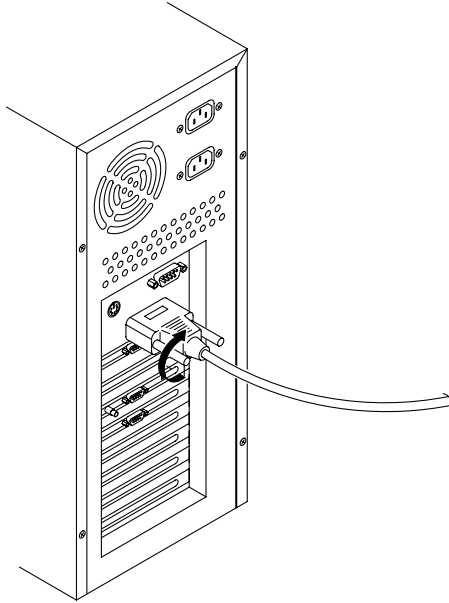
The digital press is equipped with a Centronics parallel interface port. This port is the means through which it receives data from your computer. To connect the unit to your computer, simply locate the shielded, bi-directional parallel cable included with the unit, and refer to the following steps.

NOTE: *It is very important to always use a high-quality interface cable suitable for the digital press' high-speed rate of data transmission. A suitable interface cable is a shielded, bi-directional parallel cable (preferably an I-EEE 1284 type cable) which is no longer than 6 feet in length. For best results, DO NOT connect the digital press through a switch box, as this can interfere with the flow of print data.*

1. Connect the Centronics-type parallel side to the digital press. Snap the fastening clips into place.



2. Connect the other side to the back of your PC at the LPT1, LPT2, or PARALLEL connector. Tighten the cable's thumbscrews.



The printer must have its On-Line light and Cancel lights ON to receive data. The cutter's Pause light, however, should remain OFF when the unit is ready to print.

IMPORTANT! *In order to begin printing, you must first install its custom printer driver software along with the PressPrint software for Windows 95/98. For instructions on installing and using this software, please refer to Section 7 of this manual.*

Installing and Setting Up the Printer Driver Software for Windows 95/98

6

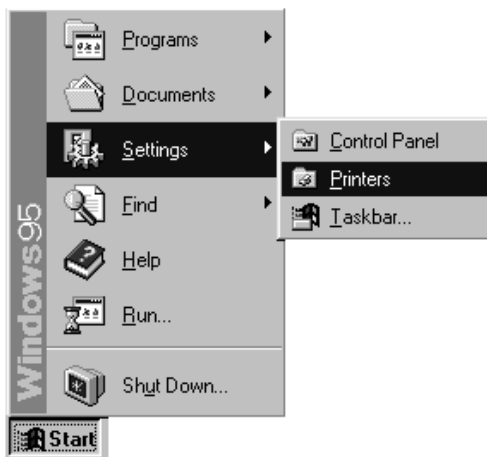
A. INSTALLING THE WINDOWS 95/98 PRINTER DRIVER

Before you can print with the digital press you must first install in Windows what is called a “printer driver.” The printer driver is simply software which gives the digital press the proper commands it needs in order to print. Use the following steps to install the printer driver into Windows 95/98. Once the driver is installed, put it away in a safe place in case it ever needs to be reinstalled.

NOTE: *This section of the Operator’s Manual assumes that you are already familiar with Windows 95/98 and know how it operates. If you are not yet familiar with Windows, consult the appropriate Microsoft® documentation to become familiar with the basics of Windows before proceeding.*

1. Insert the printer driver diskette into your computer’s disk drive.

2. Click the **Start** button, point to **Settings**, and select **Printers**.



3. Double-click on the **Add Printer** icon.



4. Follow the on-screen instructions to complete installation. When prompted, do not have Windows print a test print, since you most likely performed a printer self test in Section 5. Once installed, the Digital Label Press 2 icon, shown below, will appear in the Printers folder.



Digital Label
Press 2

NOTE: Occasionally, new printer driver versions are released which have new or updated features. Before installing an updated printer driver version, always delete the existing printer driver version from your system. To do this, simply select the printer driver icon from within the Printers folder, and press the Delete key. A message may appear saying, "Some files were used only for this printer and are no longer needed. Would you like to delete these files now?" If you have PrimaColor and/or the 32-Bit Print Spooler installed, select **NO**.

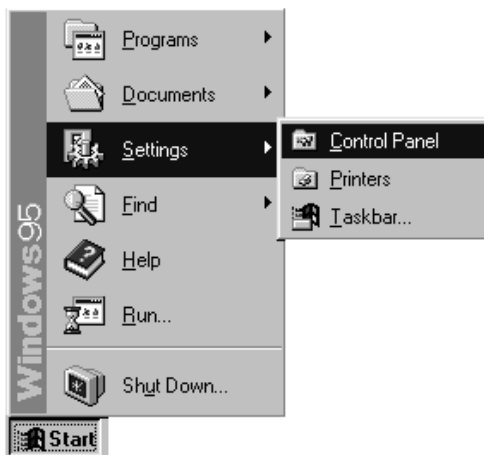
B. INSTALLING THE 32-BIT PRINT SPOOLER FOR WINDOWS 95/98

The printer driver software supports a print utility program called the 32-Bit Print Spooler. Once installed, the print spooler is able to process your print jobs and send them to the printer at consistently faster speeds than if sending print jobs through the system spooler of Windows. The 32-Bit Print Spooler also allows your computer to display helpful prompts if an error occurs during operation.

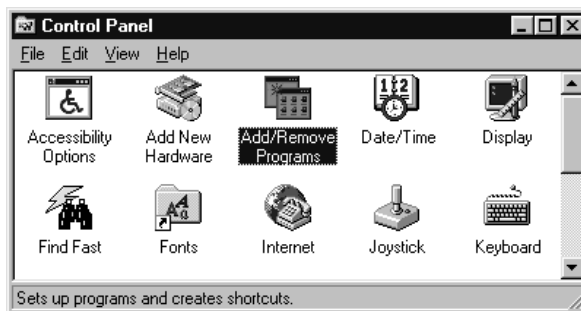
In order for the 32-Bit Print Spooler to function properly, your computer's parallel port must be set to ECP. This is a high-speed parallel port setting standard on most newer computers. (To verify or change your parallel port setting, please refer to Part C of this section.)

The 32-Bit Print Spooler installs just like any other standard Windows application program. To install the 32-Bit Print Spooler, refer to the following steps:

1. Insert the 32-Bit Print Spooler diskette into your computer's disk drive.
2. Click the **Start** button, point to **Settings**, and select **Control Panel**.



3. Double-click on the **Add/Remove Programs** icon.



- Follow the on-screen instructions to complete installation. Once installed, the 32-Bit Print Spooler icon, shown below, will appear in the Programs group of the Start menu. After installation, it is recommended that you restart your computer.

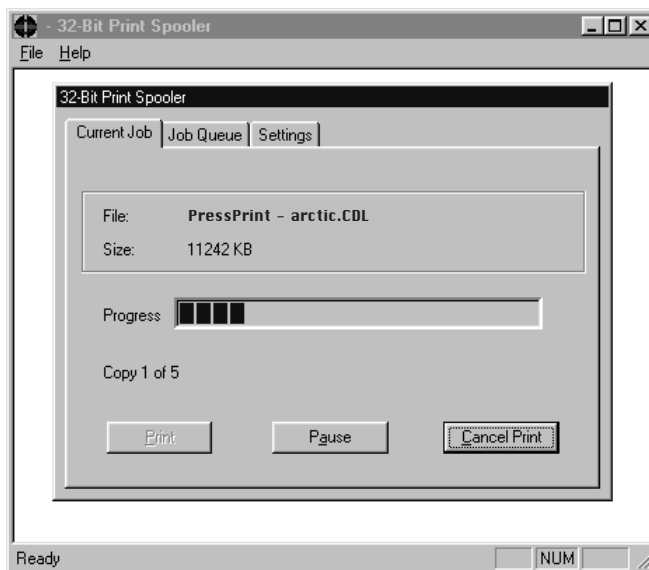


NOTE: Before installing updated 32-Bit Print Spooler versions, always uninstall the existing print spooler version from your system. To do this, simply select 32-Bit Print Spooler from the list of programs in the Add/Remove Programs Properties window and click on the Add/Remove button.

To print with the 32-Bit Print Spooler, you must select the **Fast 32-bit Spooler** option from within the printer driver setup window (see Part D for further printer driver setup information). When this option is selected, the 32-Bit Print Spooler will automatically open and close with the start and finish of each print job.

NOTE: You can also manually open the 32-Bit Print Spooler simply by selecting its icon from the Programs group of the Start menu.

When the 32-Bit Print Spooler is running, its icon will appear in the Windows Task Bar. During a print job, it is often helpful to click on this icon to bring the 32-Bit Print Spooler status window to the foreground of your application. This window provides a number of details about the print jobs being sent to the digital press.



The **Current Job** tab tells you the name and size of the file printing, the progress of the overall print job, as well as the total number of copies left to print. It also provides buttons which allow you to pause or cancel the print job at any time during the printing process.

The **Settings** tab tells you the port and printer to which you are printing and allows you to configure the timeout settings. In most instances, these settings will rarely need to be changed. This tab also provides two other options called **Save last job for reprint** and **Direct to Port Mode**.

When the **Save last job for reprint** option is selected, the 32-Bit Print Spooler will automatically save the last print job you sent to the printer and allow you to instantly reprint the job without the delay of having to reprocess it. The print job will be saved in the spooler until another print job is sent and saved over it. If you do not wish to save the last print job for reprint, deselect this option. To print a saved job, simply select the **Print** button from the spooler's Current Job tab.

The **Direct to Port Mode** option is selected by default. In most instances, this option allows the spooler to send data to the printer at its optimum speed. If, however, you experience problems when printing with this option selected, simply deselect it and try your print job again.

The **Job Queue** tab appears only when a print job is being sent to the printer. This tab tells you the name and status of each job in the queue and shows you the order in which the jobs will print if you have sent multiple jobs to the printer. A control button is also provided which allows you to delete every job listed in the queue. To delete the job currently being printed, simply select the Cancel Print button under the Current Job tab.

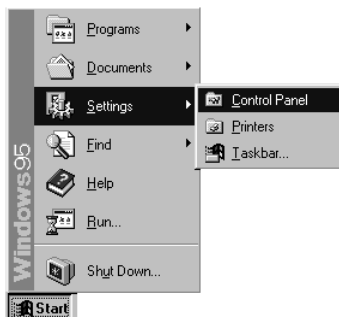
Because the 32-Bit Print Spooler offers so much control over each print, it is highly recommended that you always use the 32-Bit Print Spooler when printing.

C. CONFIGURING YOUR COMPUTER'S PARALLEL PORT

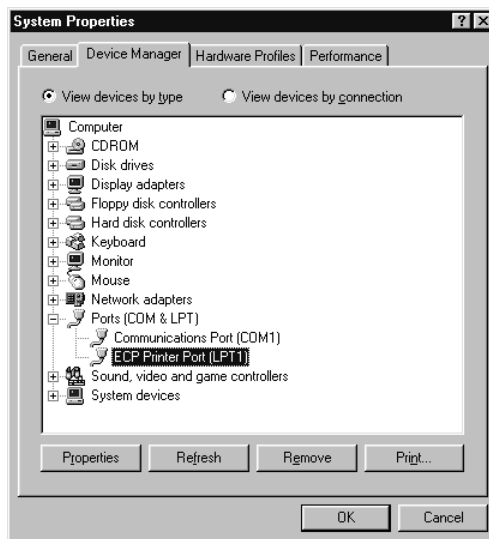
As described in Part B of this section, the printer driver software includes a software application program called the 32-Bit Print Spooler. **In order for the 32-Bit Print Spooler to function properly, you must be using Windows 95/98 and your computer's parallel port mode must be set to ECP.** Although this may sound complicated, most computer's allow you to verify or change this setting quite easily. The following steps will guide you through the general process of verifying and/or changing your parallel port setting.

NOTE *If your computer's parallel port is not ECP compatible, you will not be able to use the 32-Bit Print Spooler. Instead, print using the Write Direct To Port option within the printer driver, or print directly through the system spooler of Windows. If printing through the system spooler of Windows, see page 84 for important printing tips.*

1. Click on the **Start** button, point to **Settings**, and select **Control Panel**.

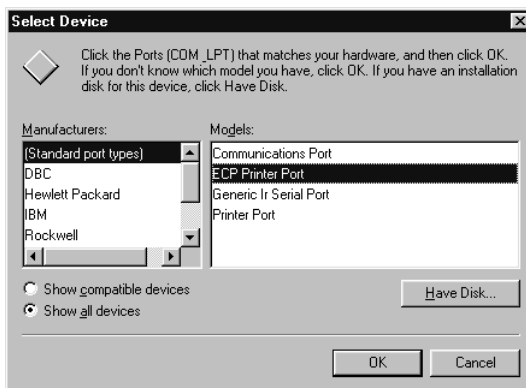


2. Double-click on the **System** icon, select the **Device Manager** tab, select **View devices by type**, and double-click on the **Ports** listing.



3. If your LPT port is set to "ECP Printer Port," your computer's parallel port is set properly and you can skip to step 6.
4. If your LPT port is set to "Printer Port" instead of "ECP Printer Port," you must change the parallel port mode through your system "BIOS" or setup screen. The system BIOS is generally entered by holding down a specific keyboard character while your computer is booting up. This keyboard character will differ depending on which brand of computer you have, but is often specified on screen during initial startup. For example, a line such as "Press <DEL> key if you want to run SETUP..." may appear. Once you have entered the BIOS, use the on-screen directions to locate the parallel port option and change it to ECP. When changed, save the BIOS settings and reboot (some computers require you to reboot twice).

5. As described in steps 1-3 above, go back to Device Manager in Windows 95/98, and verify that the LPT port registers as ECP. If your LPT port still registers as "Printer Port," double-click on the **Printer Port** line, select the **Driver** tab, and click on the **Change Driver** button. Then, select the **Show all devices** option and choose the **ECP Printer Port** option from under Models as shown below. This will force Windows to recognize your parallel port as ECP.



IMPORTANT! *Since the process of verifying and/or changing your computer's parallel port to ECP is largely dependent on your brand of computer, please refer to your appropriate computer documentation or contact the computer manufacturer for more information on this process.*

6. Once you are sure that your computer's parallel port mode is set to ECP, you are ready to print with the 32-Bit Print Spooler. Before printing, select the **Fast 32-Bit Spooler** option from within the printer driver setup window along with all other appropriate printer driver options (see Part D of this section for more printer driver information).

If you are unable to set your computer as described in this setup procedure or if you have problems printing through the 32-Bit Print Spooler, refer to the troubleshooting tip, "My prints have thin lines or a dark band across the width of the print" on page 84 for additional information.

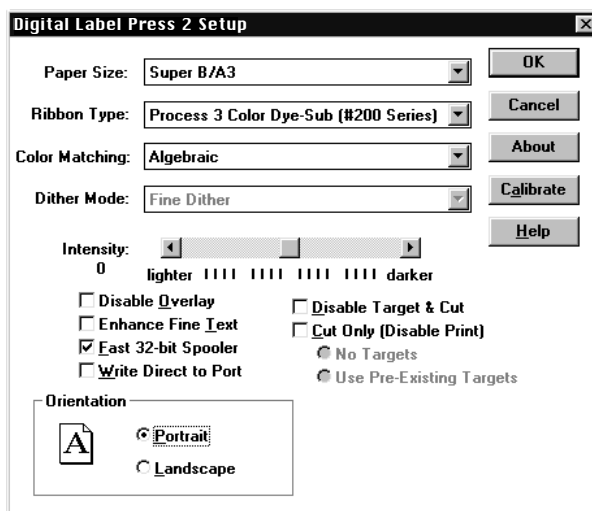
D. SETTING UP THE WINDOWS 95/98 PRINTER DRIVER

Once the printer driver has been successfully installed, you will need to set the driver up with the appropriate print options for your specific print job. Refer to the following steps to change or verify your printer driver options.

1. Click the **Start** button, point to **Settings**, and select **Printers**. Then, click on the **Digital Label Press 2** icon with the right mouse button and select **Properties**. The Properties window will appear.
2. Click on the **Details** tab of the Properties window and select the **Setup** button.

NOTE: The PressPrint printing software allows you to change these same printer driver options through the Printer Setup button of the Print window. This means that you don't have to go back to the main printer setup window each time you want to change a setting or option in the printer driver.

3. The Digital Label Press 2 Setup screen appears. Change the options as follows:



Paper Size

The digital press prints onto oversized Super B/A3-size print media. Super B/A3-size media has a 12" x 20" (305 x 508mm) sheet size which provides a maximum printable area of 11.71" x 17.3" (297 x 439mm). This means the digital press can print nearly the entire width of a sheet, but that it requires a non-printable margin of about 1.5" (38mm) on the top of the sheet and about 1.2" (30.5mm) on the bottom.

When printing from PressPrint, note that the default Blank Size is already set to the maximum printable area of 11.71" x 17.3" (297 x 439mm). For best results, leave the Blank Size set to these dimensions.

Ribbon Type

Click on the Ribbon Type down arrow. The following ribbon selections will appear: **Spot Color Resin** (#300-Series), **Spot Color Wax/Resin** (#100-Series), **Process 3 Color Resin** (#300-Series), and **Process 3 Color Dye-Sub** (#200-Series), **Process 4 Color Dye-Sub** (specialty ribbon used for printing prepress proofs), **Process 4 Color Wax** (specialty ribbon used for printing T-shirt transfers and wax thermal paper labels). Select the ribbon type option that's appropriate for the type of ribbon you are using. See Sections 4-B, 4-E, and 4-F for a complete description of all available ribbon types.

Color Matching

Click on the Color Matching down arrow and select the appropriate color matching option. Select **None** if you are more interested in print speed rather than print color, if you have already color corrected your image for printing, or if you are using the unit's optional Pantone Color Matching Software.

Select **Algebraic** if you would like the printer driver to make very simple, yet fast, color balance adjustments. This option gives you more natural looking images without actually utilizing any specific color matching software and without slowing down the processing speed of the printer driver. In general, this option works best when printing full-color graphics with the process 3 color resin ribbon.

The **PrimaColor** option is available only when the optional PrimaColor Color Matching Upgrade is installed. Select this option to enable color matching profiles written specifically for your printer. The PrimaColor option automatically adjusts the color of your image according to preconfigured printer profiles and default system profiles. This results in a very precise color match compliant with ICC standards.

NOTE: *The PrimaColor option is intended to match color hues as closely as possible. This means it works best when printing photographic images. When printing simple spot colors, you may notice that some colors may appear slightly muted.*

Since the default system profiles provided are generic, the colors of some monitors may still vary slightly from your output. As a solution, raw printer profiles are included in case you would like to combine your custom monitor profiles with the printer profiles. This can be done through third-party color matching utility programs.

Dither Mode

This option only applies when printing with a resin or a wax/resin (#100 or #300-Series) ribbon type. Click on the Dither Mode down arrow and select the appropriate dither option. Selecting **Fine Dither** provides a print in which the dots of color are very close together, giving you increased clarity if the image is to be viewed up close. Selecting **Coarse Dither** provides a print where the dots are

slightly larger and spaced further apart. This is a good option to select if you are printing images which may be viewed from further away. The Coarse option is also effective in hiding print imperfections if you are working in a particularly dusty environment.

Intensity

This control sets the lightness or darkness of the printed image. Click and drag on the slider's box or click on the left and right arrows to change the amount of heat used in the printing process.

Disable Overlay

This option only applies when printing with the 3-color dye-sublimation (#200-Series) ribbon type. Select this option if you wish to print dye-sublimation output without applying the ribbon's clear overlay panel. Please note that image durability will be minimal if this overlay is not applied. In most cases, the only time the overlay should not be applied is if you intend to heat transfer printed images to coated ceramic coffee mugs (see Section 4-F, Photo Coffee Mug Transfers).

Enhance Fine Text

This option only applies when printing with a dye-sublimation (#200-Series) ribbon type. When selected, this option allows the digital press to apply the software-based spatial filter of RasterText™ technology. This filter brings out the fine detail of smaller text and lines and allows them to print with much greater definition and clarity. Image processing time will increase when using this option.

Fast 32-bit Spooler

Select this option for consistently faster print processing. This option is only selectable if the printer driver's 32-Bit Print Spooler software has been installed. When selected, this option allows the printer driver to send all print jobs to the unit's 32-Bit Print Spooler rather than to the system print spooler of Windows. It is highly recommended that you always use the 32-Bit Print Spooler when printing. See Part B of this section for complete details on the 32-Bit Print Spooler.

Write Direct to Port

Select this option if you do not have an ECP compatible parallel port on your computer and, therefore, cannot effectively use the 32-Bit Print Spooler. When selected, this option allows the printer driver to bypass the system print spooler of Windows and to send all print data directly to the printer. This option devotes all of your system resources to the current print job, thereby increasing overall print speed. When the print job is finished, your system resources will again be devoted to the normal function of your on-screen applications.

NOTE: When printing with the Fast 32-bit Spooler or the Write Direct to Port option selected, the Print to File option found within many Windows application programs is not supported. The Print to File option is supported only when printing through the system print spooler of Windows 95/98.

Disable Target & Cut

Select this option if you wish to bypass the unit's cut function and use only its print function. This can be helpful if, for example, you are printing a large-format sign or photo that does not require precision cutting.

Cut Only (Disable Print)

Select this option if you wish to bypass the unit's print function and use only its cut function. When the **No Targets** option is selected, the digital press operates similar to a traditional cutter in that it is able to cut shapes and letters out of completely blank label stock.

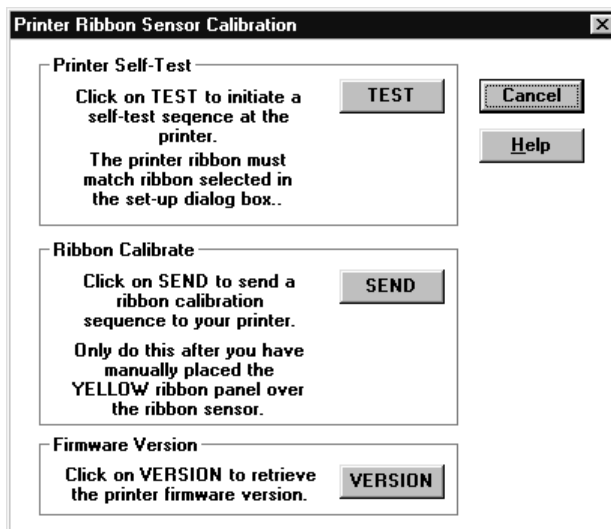
When the **Use Pre-Existing Targets** option is selected, the digital press allows you to refeed a sheet which has already been printed but still needs to be cut. To do this, simply load the sheet into the Media Supply Tray with the printed side facing DOWN. Then, resend your original print job with this option selected. This option can be helpful if, for example, you experienced some type of media jam after the sheet was printed but before it could reach the cutter.

Orientation

Select either **Portrait** or **Landscape**. Selecting Portrait causes the page to print in a vertical orientation. Selecting Landscape causes the page to print in a horizontal orientation. An icon illustrating a printed page in the dialog box helps you remember the difference between the two.

Calibrate

This option allows you to recalibrate your printer's ribbon sensor if the need should ever arise. For more information on the printer's ribbon sensor and on the calibration process, please refer to the end of Section 9. In most instances, this calibration procedure should not be necessary.

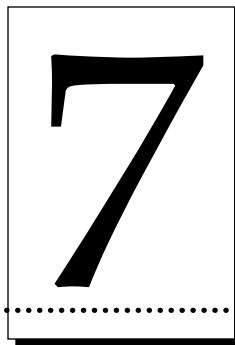


The Calibrate option also allows you to send a simple self test print to the printer by clicking on the **TEST** button. The appropriate self test will automatically print according to the Ribbon Type option you have selected in the printer driver setup. Be sure the appropriate print supplies are installed for the selected Ribbon Type. This self test procedure can be helpful in assuring that your computer is effectively communicating with the digital press and that it is functioning properly. If you would like to bypass your computer and print a self test directly from the digital press, see the self test procedure described in Section 5-B.

To find out the firmware version currently installed in the unit, click on the **VERSION** button. Periodically, new firmware versions are released which may enhance the operation of the digital press. Use this option to determine whether or not the unit is in need of an update.

After your selections have been made, select the **OK** button to return to the Properties window. Select **OK** again to return to the Printers window. Exit this window and you're ready to go on to Section 7. All printer driver options you selected will stay the same until you change them.

Installing and Using the PressPrint Software for Windows 95/98



A. ABOUT PRESSPRINT

PressPrint for Windows 95/98 is a software application program specifically designed for use with your digital press. This program is sold separately but is required in order for the digital press to both print and cut images. PressPrint is primarily intended to be used as a type of print utility program in which images created through other software applications can be imported, contoured for cutting, duplicated, and sent to the digital press for production. It does, however, include a variety of extra tools and menu selections which allow you to create more simple label and decal designs directly.

This section will guide you through the installation process and will also explain how to efficiently use PressPrint in its primary role of mass producing pre-designed images. For details on PressPrint's more general capabilities, tools, and menu selections, please refer to its extensive on-line Help menu.

B. INSTALLING PRESSPRINT

PressPrint installs just like any other standard Windows 95/98 application program. To install PressPrint, simply close down all other programs and insert the PressPrint CD into your computer's CD drive. PressPrint's Installer Program will automatically open. Follow the on-screen instructions to complete installation. Note that when the installer program displays the Font Installer dialog box, select the

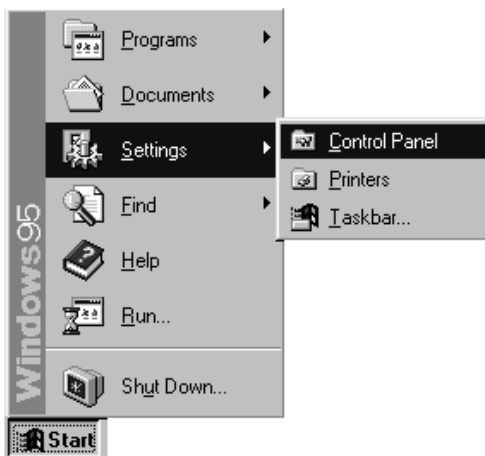
Continue button to load all of your current system fonts into PressPrint. This is necessary in order for PressPrint to recognize your system fonts.

Once installed, the PressPrint folder, shown below, will appear in the Programs group of the Start menu. Select the PressPrint icon to open PressPrint.

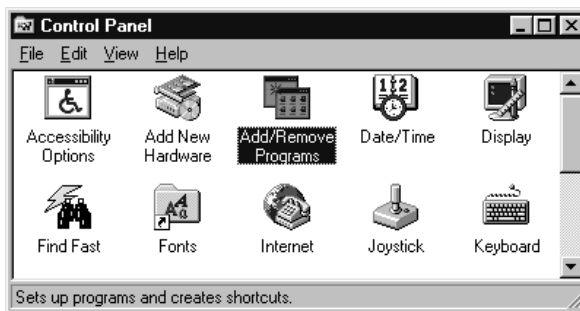


If PressPrint's Installer Program does not automatically open when the CD is inserted into your computer's CD drive, refer to the following steps to install PressPrint:

1. Click the **Start** button, point to **Settings**, and select **Control Panel**.



2. Double-click on the **Add/Remove Programs** icon.

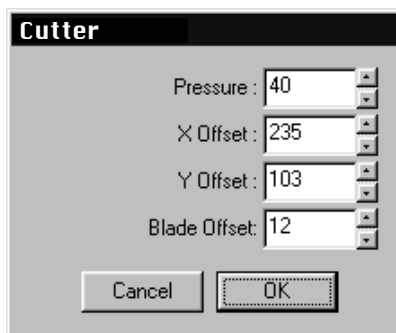


3. Follow the on-screen instructions to complete installation. Once installed, the PressPrint folder will appear in the Programs group of the Start menu. Select the PressPrint icon to open PressPrint.

C. CONFIGURING THE CUTTER SETTINGS

Before you begin using PressPrint to produce output, you must first enter the custom cutter settings for your digital press. These settings are determined at the factory and are provided on a sheet labeled “Cutter Settings” which is included with the unit. These settings are also indicated on a label attached to the rear of the unit. The cutter settings are software selectable and assure that the cut line will accurately be aligned with the printed image. Once entered, these settings will seldom need to be changed.

To enter the custom settings for your digital press, open the PressPrint software. Then, click on the Cut menu and select **Cutter Settings**. The Cutter window appears.



Enter the custom values noted on the sheet labeled “Cutter Settings” or on the printer’s rear panel label, and select **OK**.

The **Pressure** option controls the overall cut pressure applied by the cutter. Once entered, this setting should not need to be changed. Instead, when adjusting for the various types of print media, use only the Cutting Pressure slide on the front of the unit. See Section 3-D for information on when and how to adjust the Cutting Pressure slide.

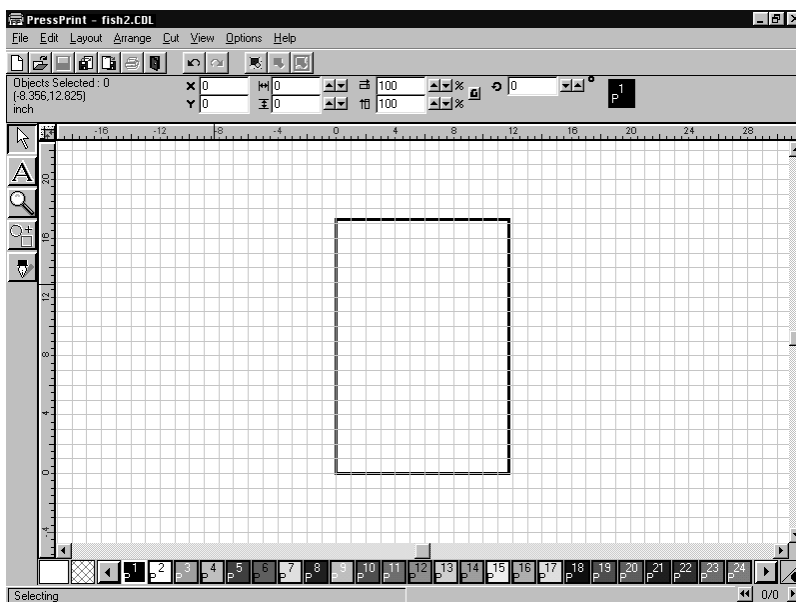
The **X Offset** and **Y Offset** options fine-tune the position of the overall cut line. If these values are slightly inaccurate, the cut line will not appear centered around the printed image. The X Offset dictates the position of the cut line along a fixed *horizontal* axis and is measured in thousandths of an inch from the left-hand side of the page to the left-hand edge of the first cut line. Therefore, increasing the X Offset moves the overall cut line further away from the left-hand side of the page and decreasing it moves it closer (Hint: 100 thousandths of an inch equals .1” or 2.54mm).

The Y Offset dictates the position of the cut line along a fixed *vertical* axis and is measured in thousandths of an inch from the top of the page to the top edge of the first cut line. Therefore, increasing the Y Offset moves the overall cut line down from the top edge of the page and decreasing it moves it up (Hint: 100 thousandths of an inch equals .1" or 2.54mm).

The **Blade Offset** indicates the distance from the tip of the blade to the edge of the blade shaft. Since the digital press will always use the same type of blade, this value should always remain the same.

D. USING PRESSPRINT

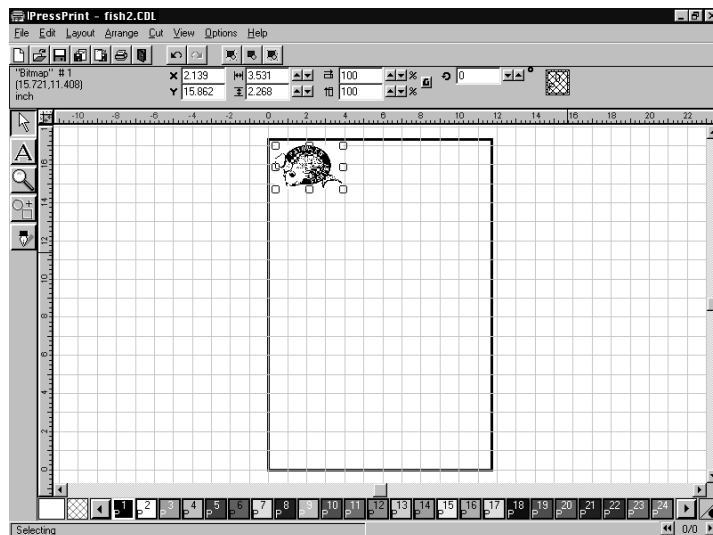
This part of Section 7 explains how to use the PressPrint features most essential to printing with the digital press. Refer to the following steps to learn how to import an image, place a contour cut line around it, and duplicate the image down and across the page.



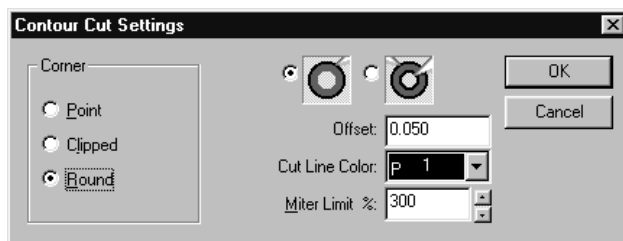
1. After opening PressPrint, select **Import** from the File menu. The Import File window appears.



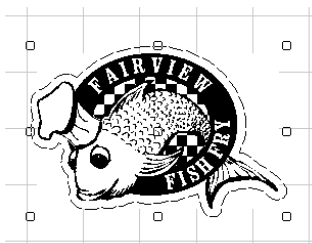
2. Select the file you would like to import. To do this, use the list of File Type options to select the exact type of file you would like to import. Then, use the Look in: box to navigate to the drive and directory in which your file is located. Select the specific file you wish to import. (Select the **Merge** check box if you intend to import two or more different images onto the same page.) Click on **OK** to begin importing. (See Part F of this section for tips on importing different file types.)
3. When the file is finished importing, it will automatically be selected. Click and drag on the surrounding nubs to resize the image. Click and drag on the center nub to move the image. Note that for best print quality, imported *bitmap* images should be kept at or close to their original size.



4. While the image is still selected, click on the Cut menu and select **Contour Cut** (see Part F of this section for information on PressPrint's Die Cut feature). The Contour Cut Settings window appears.

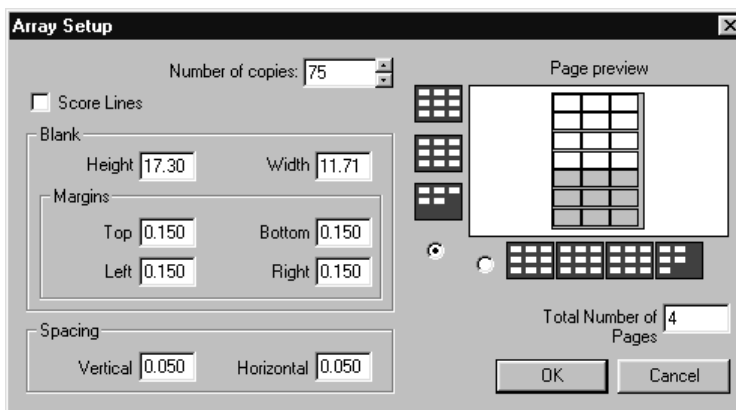


5. Select  to trace a cut line along the exact contour of your image's outside edge. Select  to trace a cut line along the contour of both the outside and inside edges of your image. In this case, the software will essentially attempt to cut away anything it sees as white space. Then, enter the desired **Offset** value to specify how far you would like the cut line to be from the edge of the colored portion of your image. Entering a value greater than 0 will cause the cut line to be placed away from the colored portion of your image. Entering a value less than 0 will cause the cut line to be placed within the colored portion of your image. Entering an exact value of 0 will cause the cut line to be placed on the very edge of where the colored portion of your image meets white space.
6. Select **OK** to begin contouring your image. This process will take from just a few seconds to a few minutes depending on the size and complexity of your image. When the image is finished contouring, a dashed cut line will appear around your image and both will be selected.



NOTE: If you imported a bitmap image, you may wish to select **Show Bitmaps Outlines** from the View menu before proceeding. For more information on this option, see its explanation in Part F of this section

7. With both the cut line and the image selected, click on the Layout menu and select **Array**. The Array Setup window appears.



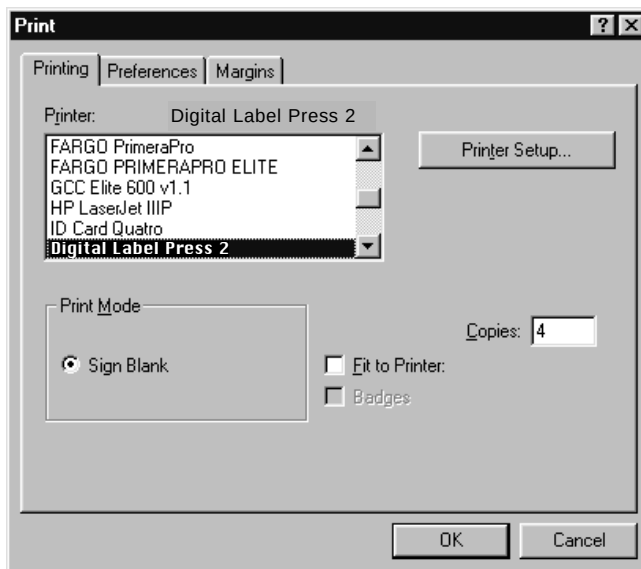
8. Enter the total number of copies you would like to make of your image. Adjust the margins and/or spacing between each image accordingly in order to fit the maximum number of copies on each page. The Page Preview shows you how your images will layout when duplicated. The Total Number of Pages box shows you how many individual pages will be required to produce the specified number of labels.
9. Click on **OK** to begin duplicating your image. Note that if copying multiple pages of output, only one page of images will actually appear on screen. This is done to conserve system resources. PressPrint remembers the total number of pages created, however, and automatically sends them to the digital press at the time of printing.

When your image is finished duplicating, you may wish to save your file before printing. To do this, select **Save** from the File menu and specify a file name and a location of where you would like the file to be saved. Files will be saved with PressPrint's native ".CDL" file extension.

E. PRINTING TO THE DIGITAL LABEL AND DECAL PRESS

Once you have successfully completed Part D of this section, you can then send your file to the digital press to be printed and cut. Refer to the following steps to begin printing.

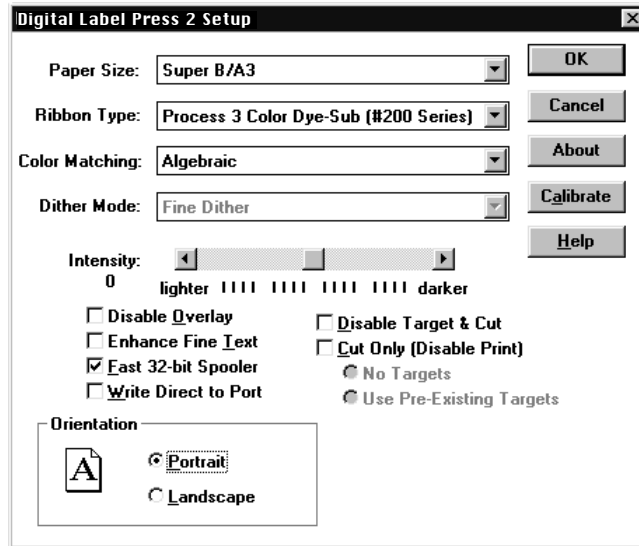
1. Select **Print** from the File menu. The Print window appears.



2. Be sure **Digital Label Press 2** is selected under the Printer option. The rest of the options can be left at their default settings for most print jobs. Notice that the number in the Copies box will automatically match the total number of pages specified when you originally arrayed your image.

NOTE *If you intend to print with the #200-Series dye-sublimation print supplies, you may wish to select one of the Anti-Aliasing options from the Preferences tab. Anti-Aliasing causes printed images to appear more smoothly around the edges. In most cases, the Fine Anti-Aliasing option provides the best print quality. DO NOT select anti-aliasing if printing with #100 or #300-Series supplies, as it can actually degrade print quality with these materials.*

3. Click on the **Printer Setup** button. The Digital Label Press 2 Setup window appears. Be sure that the appropriate printer driver settings are selected for your upcoming print job. In particular, be sure that the proper Ribbon Type option is selected and that the Fast 32-bit Spooler option is checked. Refer to Section 6-D for more information on any of these printer driver options.



4. Once all appropriate printer settings have been chosen, select **OK** to close the setup window. Select **OK** from the Printing window to send your print job.

Before the digital press actually starts printing, the print job must be processed or rasterized. This will take anywhere from several seconds to several minutes depending on the complexity of your image and the speed of your computer. During this time, your computer will be tied up. Once the print job finished rasterizing, your computer will be released and you will hear the unit begin to feed the first sheet of print media.

The digital press will simultaneously print and cut as many sheets of output as you originally specified. While printing, you may wish to bring the 32-Bit Spooler to the foreground in order to monitor the status of the print job. If you experience an error during operation, you can use the 32-Bit Print Spooler to pause the print job while you clear any recoverable errors such as an initial print media or ribbon jam. Once the error is cleared, select **Resume** in the spooler to resume printing. After a minute or two, the digital press will once again begin printing your print job.

If you need to adjust the cut pressure during the print job, use the Cutting Pressure slide on the front of the unit. See Section 3-D for information on when and how to adjust the Cutting Pressure slide. For more information on dealing with possible print errors, please refer to Section 9. For important hints on efficiently working with the PressPrint software, please refer to Part F of this section.

F. HELPFUL PRESSPRINT HINTS

Importing Files

- PressPrint accepts a wide variety of file types. These file types are listed and can be selected through PressPrint's Import window. When importing files created through other programs, be sure the file you are importing is one of the file types listed in the import window. Like all other graphics programs, PressPrint will not be able to import an unsupported file type.

If you have problems importing a certain file type, simply resave or export your file as one of PressPrint's other supported file types. In most cases, importing a file which has been converted to a TIFF or JPEG will essentially guarantee that PressPrint will accept it. Most graphics applications allow you to save or export images in a variety of industry-standard file types. (If importing TIFF files, note that only RGB TIFF images are supported. CMYK TIFF files will not import properly.)

If your program does not allow you to save or export an image in an acceptable format, a separate file conversion software package called Transverter Pro™ is available. This package allows you to easily convert files into a variety of accepted PressPrint formats. See the documentation included with this conversion software for complete instructions.

- When preparing a file to be imported, be sure to prepare and import a single image only. In other words, use PressPrint to duplicate and mass produce the image after it has been imported.

Importing Macintosh Files

In many cases, files which have been created on a Macintosh will need to be imported into PressPrint. This is done in the exact same fashion as importing a Windows file and all the tips given in the previous "Importing Files" hint still apply. In addition, however, Mac users should be aware of a few additional tips.

- Since you will not always have all of the fonts supported by a Macintosh on your PC, you should always convert Macintosh text to curves before exporting. This will turn fonts into graphics, thereby eliminating the need to support that font on the computer running PressPrint.
- When exporting the image from your Macintosh program, be sure to export as one of PressPrint's supported file types. If you have trouble importing any of the standard Macintosh file types such as an EPS, try exporting the image in a bitmap format such as TIFF or JPEG. These file types are standard to both Mac and Windows. If your Mac program does not allow you to save or export an image in anything other than an EPS format, a separate file conversion software package called Transverter Pro is available. This package allows you to easily convert an EPS file into a standard bitmap format such as a TIFF or JPEG. See the documentation included with this conversion software for complete instructions.

- Be sure to name your file with the appropriate file extension to indicate the type of file you are saving it as. For example, if exporting your image as an EPS file it should be named "Filename.eps". For a TIFF file, name it "Filename.tif". Or, for a JPEG file, call it "Filename.jpg".

Importing Vector vs. Bitmap Files

A **vector-based file** is a file such as an EPS which can be grouped, ungrouped, and broken apart into a number of separate objects. These objects can be individually sized, deleted, or repositioned. Vector files are generally created in programs such as Adobe® Illustrator® or Corel Draw™ and are beneficial in that they can be edited and greatly enlarged or reduced within PressPrint without sacrificing any image quality or resolution.

The draw back is that vector files include graphics only. So, if you have a photographic image within your label design, the photo will not be considered a vector object and may not import into PressPrint along with the rest of the vector-based graphics. To overcome this issue, you can import the vector-based graphics and the photographic image separately, then basically reassemble your label design within PressPrint. An easier way, however, is to simply import such a label design as a bitmap file format.

A **bitmap file** is a file such as a TIFF or JPEG which cannot be broken apart into separate objects. Instead, when an image is saved or exported in a bitmap format, it becomes a single, solid object. A bitmap file is beneficial in that it provides an easy way to import nearly any type of label design from nearly any type of program, without losing any of the label's design elements. The only draw back to bitmap images, however, is that they cannot be easily edited like a vector-based image, and will slightly degrade in quality if significantly enlarged.

Show Bitmaps Outlines / Show Reduced Bitmaps

Since bitmap images are saved as one solid object, they tend to have a file size slightly larger than that of a vector-based graphic. This means that more system resources may be required by such files causing your computer to slow down. To avoid this, PressPrint provides two options called "Show Bitmaps Outlines" and "Show Reduced Bitmaps" under the View menu. The Show Bitmaps Outlines option makes bitmaps appear as a simple box outline on screen. This conserves system resources and greatly increases the speed of your system when working with bitmaps. The Show Reduced Bitmaps option conserves slightly less system resources, but allows bitmaps to remain on screen by displaying them at a reduced resolution.

To utilize either of these options, simply import your bitmap label design and place a cut line around it as usual. Then, before duplicating the image, click on the View menu and select either **Show Bitmaps Outlines** or **Show Reduced Bitmaps**. All bitmaps will be displayed accordingly as long as either option is selected. To return to normal display mode, simply deselect the option.

Purge Undo

Another option which will enhance the speed of PressPrint is the **Purge Undo** option of the Edit menu. Selecting this option from time to time will clear the memory of PressPrint's Undo feature, thereby freeing up more memory for PressPrint's more immediate functions. Note that once the undo memory has been purged, you will not be able to undo any actions done prior to the purge.

Aligning Objects

PressPrint provides an alignment option which automatically aligns two or more selected objects. This feature is helpful if, for example, you would like to align a Die Cut line with your label design or to align a selection of grouped label designs to the page blank. To utilize this feature, select the objects you wish to align. Then, select **Alignment** from the Layout menu, specify how you would like the selected objects to align, and click on **OK**.

Creating A Die Cut

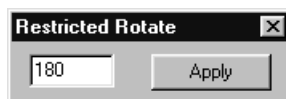
A die cut is different from a contour cut in that die cuts provide a preset cut line in shapes such as rectangles, circles, stars, ovals, etc. PressPrint provides several die cut shapes which can be individually customized. To create a die cut line, select the object around which you would like to place the cut line. Then, select **Die Cut** from the Cut menu. When the Die Cut Settings window appears, specify the style, size, and other custom settings of the cut line, and click on **OK**. The die cut line will automatically center in relation to the selected object.

Selecting Objects

To select an object, choose the Pointer tool and click on the edge of the object. To select multiple objects, hold down the shift key while clicking on the edge of each object. Another way to select one or more objects is to use the Pointer tool to click and drag around the object or objects you would like to select. As you drag the pointer tool, a blue outline will appear. Any object within this outline will be selected.

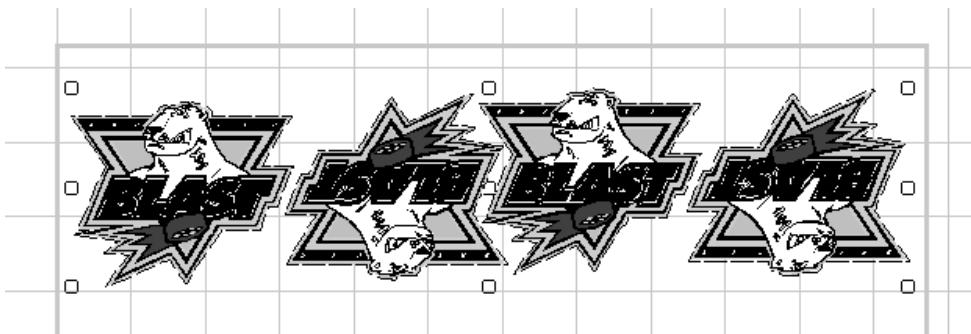
Rotating Images to Maximize Space

In order to fit as many labels on a page as possible, you may sometimes wish to rotate images so they can be placed closer together. To rotate an image, select both the image and its cut line. Then, select **Rotate** from the Layout menu. The Rotate window appears.



Enter the number of degrees you wish to rotate the image and click on the **Apply** button. This will rotate the image. To close the Rotate window, click on the  button.

Use the Rotate option along with the Duplicate option of the Edit menu to create a single row of closely placed images. Use the Alignment option of the Layout menu to help align the images. Once you get a complete row created and aligned (as shown below), click and drag the pointer around the entire row to select it. You can then use the Array option of the Layout menu to duplicate the row down the page as you normally would a single image.



Anti-Aliasing

Anti-Aliasing is an option found in the Preferences tab of the Print window. When selected, this option automatically smoothes the edges of images printed with the #200-Series dye-sublimation materials. None, Coarse, Medium, and Fine anti-aliasing options are available. In general, the Fine option provides the best quality. **DO NOT** select this option if printing with the #100-Series wax/resin or #300-Series resin materials. Since these materials cannot produce continuous-tone images like dye-sublimation materials, anti-aliasing can actually degrade the quality of resin and wax/resin images.

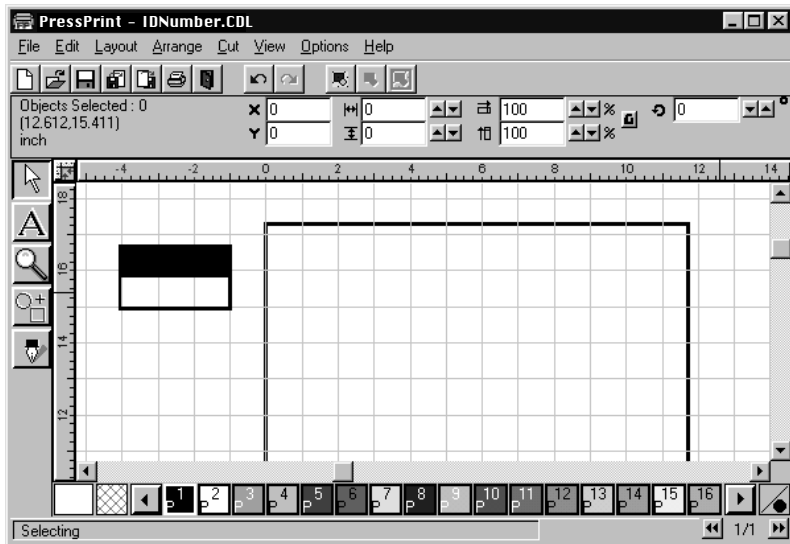
Printing Multiple Pages of the Same Label

Besides the standard method described in Part D (step 7) of this section, there is another, sometimes more efficient, way of printing multiple pages of the same labels. To use this alternate method, simply import an image and duplicate one page worth of labels. Then, send that single page to the printer with the 32-Bit Print Spooler's **Save last job for reprint** option selected. After the first page is finished printing, open the 32-Bit Spooler and select the **Print** button. When the Number of Copies to Print window appears, enter the number of pages you would like to print, and click on **OK**. All specified pages will then be printed. The saved print job will remain in the 32-Bit Print Spooler until another print job is sent to the spooler and saved over it.

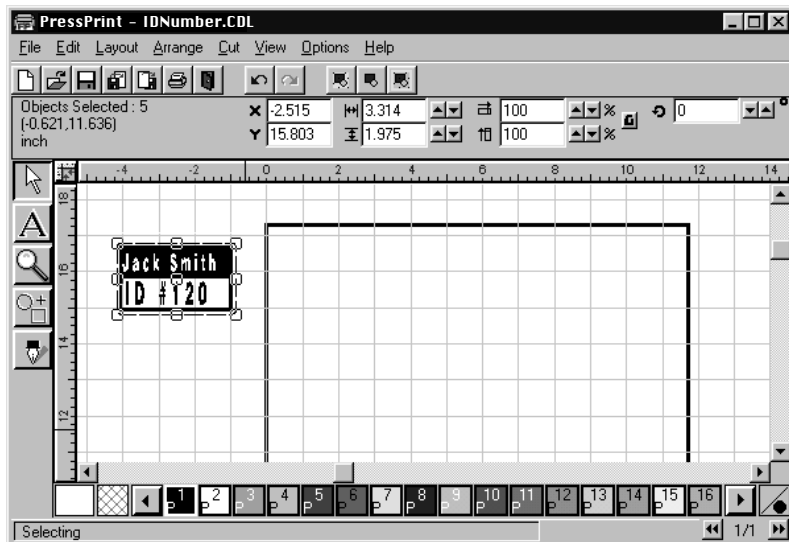
G. CREATING SERIALIZED LABELS

PressPrint makes it easy to create serialized labels such as product serial tags, parking stickers, and more. PressPrint even allows you to incorporate text (.txt) files, such as a list of names, into serialized labels for even greater customization. To create a set of serialized labels, please refer to the following procedure. As an example, this procedure demonstrates how to create labels with both a serialized number and a custom serialized name. If you have not yet read through Parts D, E, and F of this section, please do so before attempting to complete this procedure.

1. Import or create a label design in which you would like to place your serialized text.

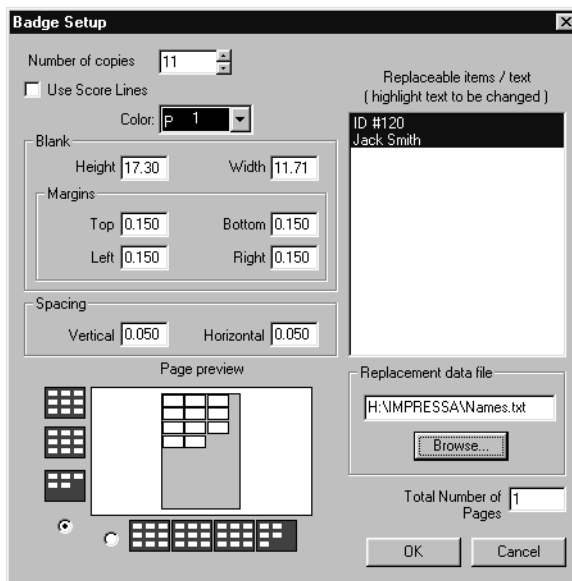


2. Use the text tool  to enter the line or lines of text exactly as you would like it to appear in the first label. Enter a separate line of text for each text field you would like to serialize.

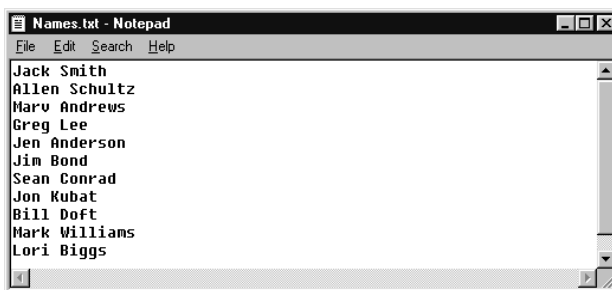


3. Once you have entered the text, place a cut line around the entire label and select all.

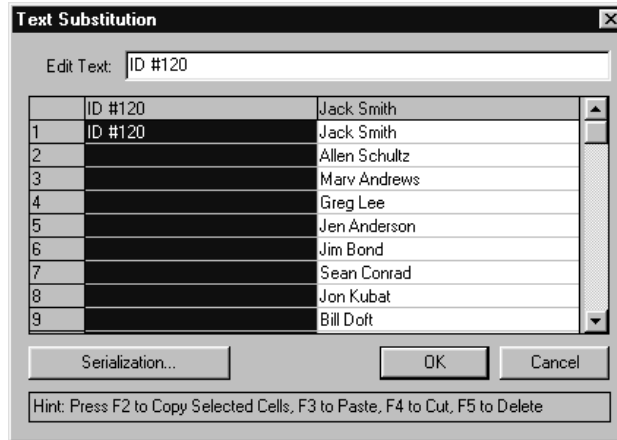
4. With both the cut line and the label selected, choose **Badges** from the Layout menu. The Badge Setup window appears.



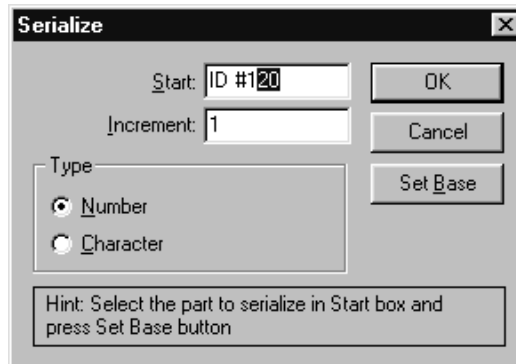
5. Enter the number of labels you wish to create into the **Number of copies** box, and adjust the vertical and horizontal spacing between labels as needed.
6. Highlight the text you wish to have serialized and, if applicable, click on the **Browse** button to select the appropriate Replacement data file. The replacement data file specifies the text (.txt) file you would like to use in your serialized labels. Such a file can be created in any text editing program, such as the Notepad program in the Windows Accessories folder, and must be saved in an MS-DOS Text (.txt) format. When creating such a file, place each item in the list on its own line, and be sure to close the file before attempting to merge it into PressPrint. A sample of the list created for this example procedure is shown below:



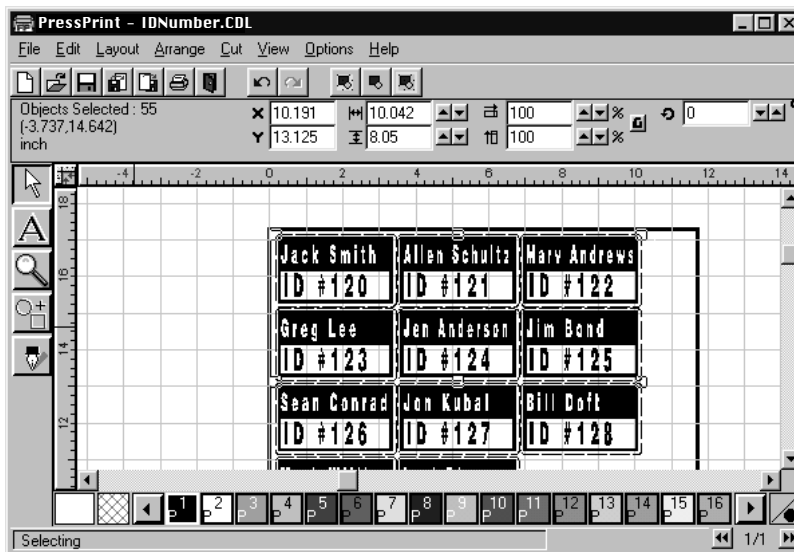
7. Once you have highlighted the text you wish to serialize and/or selected the replacement data file, click on the **OK** button of the Badge Setup window. The Text Substitution window appears.



8. When the Text Substitution window appears, make sure the text from the replacement data file is listed under the appropriate column. If not, use the indicated "F" keys to cut and paste the data into the appropriate column.
9. Click on the top gray cell of the numerical text as indicated to select all of the cells. Then, enter the serialized text into the Edit Text box exactly as you would like that text to appear on your first label, and click on the **Serialization** button. The Serialize window appears.



10. Fill in the variable information as prompted by the instructions in the Serialize window, and click on **OK** when finished. Select **OK** again in the Text Substitution window to begin serializing and duplicating your labels. All serialized text will appear in the font selected in your initial label design.



Note that if copying multiple pages of output, only one page of images will actually appear on screen. This is done to conserve system resources. If you would like to view subsequent pages, PressPrint does provide a scrolling tool

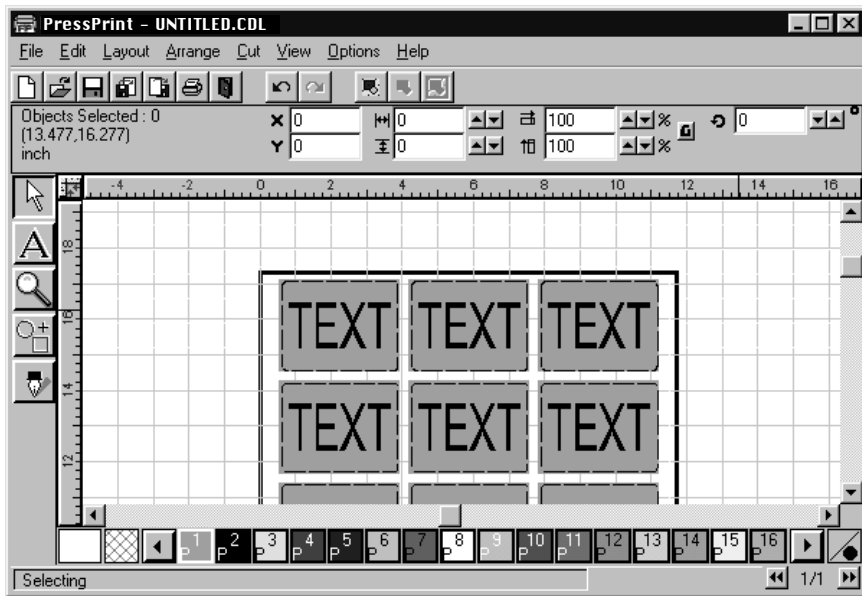
◀◀ 1/4 ▶▶ in the bottom right-hand corner of its screen. This allows you to easily move from page to page. When your labels are finished duplicating, you can then print them according to the instructions in Part E of this section.

H. PRINTING MULTIPLE SPOT COLOR LABELS

Multiple spot color labels are labels created by using two or more of the digital press' separate spot color resin or wax/resin ribbons to print a label design with two or more separate colors. This process is done by manually changing ribbon colors during the print job and is beneficial if you would like to create a simple two or three color label with no dithering. Since separate ribbons are used, keep in mind that the alignment of the different colors may not be exact. For this reason, your multiple spot color label designs should be relatively simple.

The following is an example of how to print a multiple spot color job. You may want to actually complete this exercise as a self tutorial. If you do not have the ribbon colors specified in this exercise, simply substitute any other spot color combination. Note that both single and multiple pages of multiple spot color labels can be printed in this fashion. If you have not yet read through Parts D, E, and F of this section, please do so before attempting to complete this exercise.

1. Create a label consisting of a RED square background with BLACK text centered inside. Then, place a cut line around the red square and array the labels down the page.



2. Click on the RED color box in the color palette on the bottom of your screen, and drag it to the first position in the palette (P1). Likewise, click and drag the BLACK color box to the second position (P2). The Colors in the image will be printed in the order in which they appear in the color palette.
3. Insert the **RED** ribbon into the printer and be sure the appropriate print media is also loaded. Then, select **Print** from the File menu.
4. Select the appropriate Printer Setup options (Ribbon Type, etc.). Then, click on the Preferences Tab and select the **Separate Colors** option. This forces the colors in your image to be printed separately. Also, select the **Clip Separated Colors** option if you do not want the digital press to print in areas where the second color will be printed. This option is useful if printing lighter colors on top of darker colors. Note that these options should only be selected when printing multiple spot color print jobs.
5. Click on **OK** to print. PressPrint will send only the RED squares to be printed. During printing, a message will display on screen telling you to wait until printing is complete before loading the next ribbon color and reloading the print media.

6. When the RED squares are finished printing, the printed sheet will be ejected. At this time, remove the RED ribbon and load the **BLACK** ribbon. Then, reload the printed sheet back into the Media Supply Tray. Be sure to load the printed sheet with its **Print Side Down** and with its Top or **Leading Edge nearest the Media Tray's feed roller**.
7. When all supplies are once again in place, click on **OK**. PressPrint will send the BLACK text to to be printed. The cutter targets and cut information will also be sent to the digital press at this time since black is the final color (PressPrint does this automatically when the Separate Colors option is selected, as long as cutting is enabled in the driver). Printing and cutting of your two color labels should now be complete.

Maintenance

8

Your the digital press is built to require a minimum amount of maintenance. Nevertheless, there are a few procedures you can perform on a regular basis or as needed to ensure the best possible performance.

A. SUPPLIES REQUIRED

For the procedures listed in this section, you will need the following items:

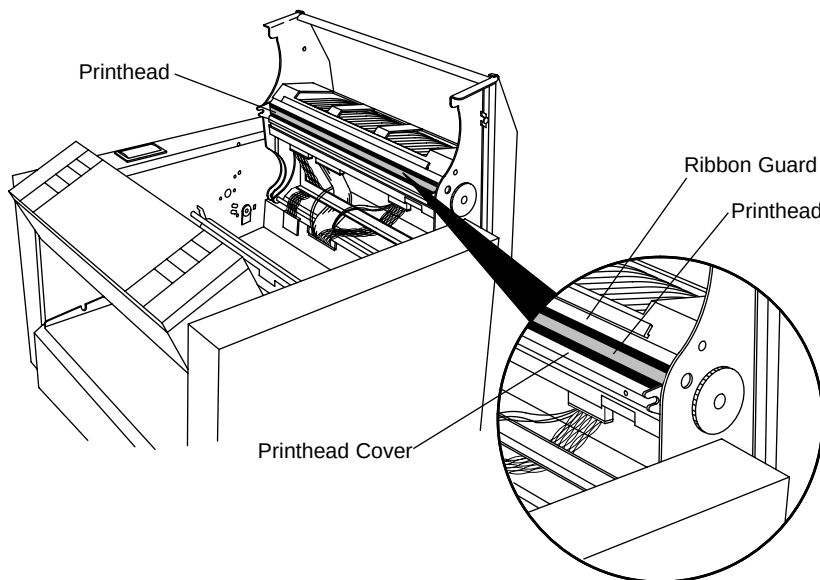
- Isopropyl alcohol
- Soft, lint-free cloth
- Small vacuum cleaner (if available)

Or, to make these maintenance procedures more convenient, a Printer Cleaning Kit is available from your authorized reseller. This optional kit includes the following:

- **Printhead Cleaning Pens** pre-moistened with 99.99% isopropyl alcohol for cleaning your printer's Printhead.
- **Cleaning Pads** pre-moistened with 99.99% isopropyl alcohol for cleaning your printer's rollers and general inside area.

B. CLEANING THE PRINTHEAD

This procedure is performed if you notice a streak running the length of the page where ink was not transferred. This procedure should also be performed approximately every 100 prints in order to maintain consistent print quality.



1. Turn the printer power OFF.
2. Open the printer's Top Cover by pressing the Cover Release Button.
3. Remove the Ribbon Cartridge from the printer.
4. Using a Printhead Cleaning Pen from the Printer Cleaning Kit or a soft, lint-free cloth *slightly* moistened with isopropyl alcohol, firmly wipe back and forth across the surface of the Printhead. If using a cloth, be extremely careful not to use too much alcohol. It must not be allowed to drip into the printer!
5. Allow the Printhead to thoroughly dry before re-installing the Ribbon Cartridge.
6. Re-install the Ribbon Cartridge, and shut the cover. If a streak persists, Contact Technical Support for further assistance.

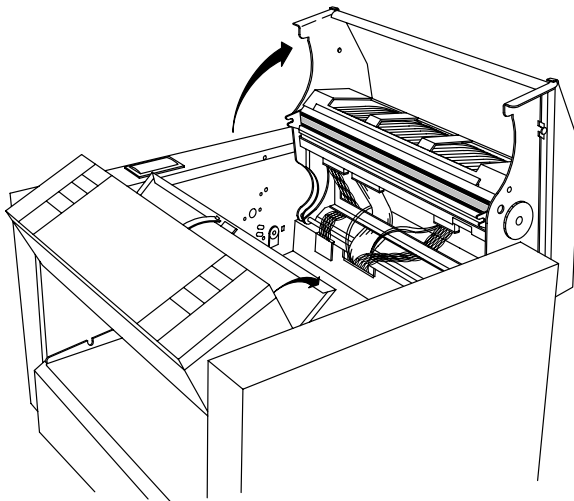
IMPORTANT! *Never use a sharp tool or a metal object of any kind to clean the Printhead. You will damage the Printhead!*

C. CLEANING THE UNIT'S CASE

Your digital press has a durable casing that should retain its luster and appearance for many years. Clean it only with a soft cloth slightly moistened with water or a mild soap. Do not use excess water or cleaning solvents of any kind. Never spray the cabinet with a cleaner. Rather, spray the cloth first and then wipe down the unit.

D. CLEANING THE INSIDE OF THE UNIT

As you use your digital press dust and other particles will accumulate inside its case. These particles are attracted to the underside of the ribbon by static produced during printing and can cause voids or colored spots on the printed image. Use the following procedure to clean the inside of the unit periodically or as needed.



1. Open the printer's Top Cover by pressing the Cover Release Button.
2. Remove the Ribbon Cartridge from the printer.
3. Open the Cutter Door by pulling down on the door's handle.
4. If you have access to a very small vacuum cleaner (most computer stores sell devices just for this purpose), use it to vacuum out all visible areas inside the printer and cutter. Using such a vacuum works especially well when cleaning paper dust from the cutter.
5. If you do not have access to a small vacuum, use a Cleaning Pad from the Printer Cleaning Kit or a soft, lint-free cloth *slightly* moistened with isopropyl alcohol to wipe out all visible areas inside the printer and cutter. Also, thoroughly wipe off any dust which may be on the Ribbon Cartridge. **Be extremely careful not to let any alcohol drip inside the printer's case!**

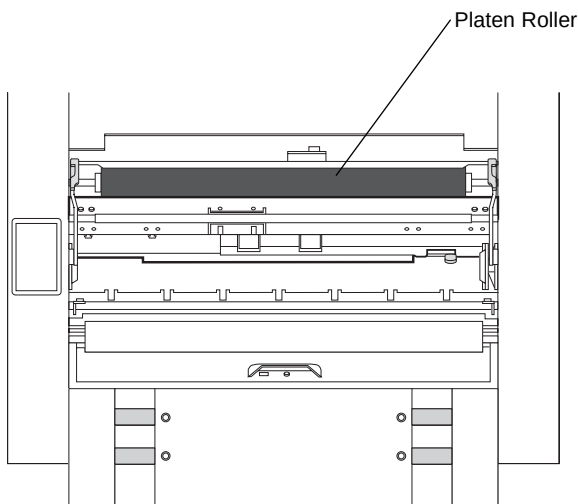
6. Re-install the Ribbon Cartridge, shut the Cutter Door, and shut the printer's Top Cover.

E. CLEANING THE PLATEN ROLLER

The Platen Roller rests just underneath the Printhead when the printer's Top Cover is closed. During printing, print media is wrapped tightly around this roller in order to maintain consistent print registration.

Periodically clean the printer's Platen Roller if you notice excess dust or debris accumulation on the roller or if the digital press is having feeding problems or print media jams. Also perform this procedure if you notice any ink on the Platen Roller. Use the following steps to clean this roller.

1. Open the printer's Top Cover by pressing the Cover Release Button.
2. Remove the Ribbon Cartridge from the printer.
3. Locate the Platen Roller. It is the long, black rubber roller in the center of the printer's interior.



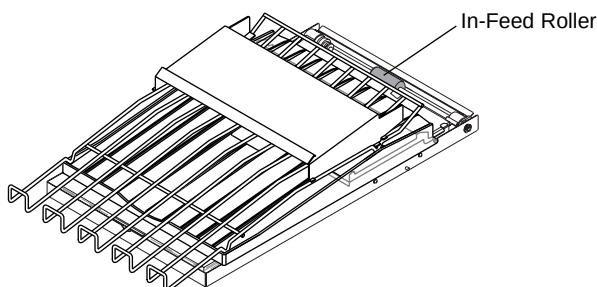
4. Use a Cleaning Pad from the Printer Cleaning Kit or a soft, lint-free cloth *slightly* moistened with isopropyl alcohol to thoroughly wipe the roller clean. While wiping, use the Cancel button of the Printer controls to rotate the roller. **Be extremely careful not to let any alcohol drip inside the printer's case!**
5. After the roller is clean and *completely dry*, replace the Ribbon Cartridge and close the printer's cover.

F. CLEANING THE IN-FEED ROLLERS

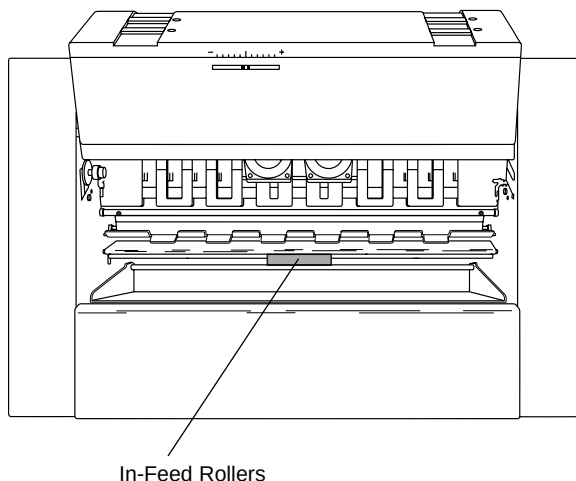
The In-Feed Rollers are visible when the Media Tray Assembly is removed. There are a total of three In-Feed Rollers. Two rollers are located within the printer, one directly in front of the other. The other roller is located on the Media Supply Tray. Together, the In-Feed Rollers serve to pull print media out of the Supply Tray and feed it up into the printer.

Periodically clean the printer's In-Feed Rollers if you notice voids or spots in printed images down the center of the page, if you notice excess dust or debris accumulation on the rollers, or if the printer is having difficulty pulling media out of the Supply Tray. Use the following steps to clean these rollers.

1. Remove the Media Tray Assembly from the printer.
2. Locate the Media Supply Tray's rubber In-Feed Roller.



3. Locate the two rubber In-Feed Rollers within the printer.



4. Use a Cleaning Pad from the Printer Cleaning Kit or a soft, lint-free cloth *slightly* moistened with isopropyl alcohol to thoroughly wipe each of the rollers clean. While wiping, manually rotate each roller with your fingertips.

5. After all of the rollers are clean and *completely dry*, replace the Media Tray Assembly.

G. CLEARING A RIBBON JAM

If the ribbon becomes jammed in the printer's Platen Roller (visible when you open the printer's Top Cover), use the following procedure to correct the problem.

1. With the printer's Top Cover open, remove the ribbon take-up core (the side with the used ribbon on it) from the Ribbon Cartridge.
2. Gently pull the ribbon up and out of the printer while pressing and holding down the printer's On-Line button. This will rotate the Platen Roller backwards and eject the ribbon while you are pulling upwards.
3. If any ink is visible on the Platen Roller, clean it according to the steps in Part E of this section.

H. CLEARING A MINOR PRINT MEDIA JAM

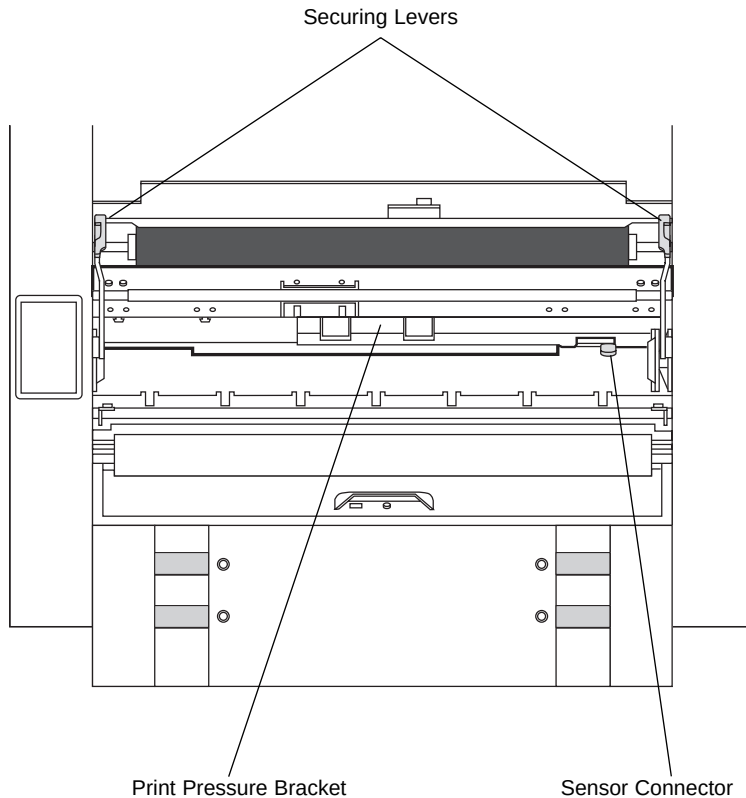
If a sheet of print media becomes jammed inside the unit, remove it through the following steps:

1. Open the printer's Top Cover by pressing the Cover Release Button.
2. Remove the Ribbon Cartridge and, if necessary, the Media Tray Assembly from the printer.
3. From the Printer controls, press the Cancel button to advance the print media. Press the On-Line button to reverse the print media. If the print media is jammed within the cutter, press the cutter's Cancel button to advance the print media or its Pause button to reverse the print media. Note that the Cutter Door must be closed and the printer's Top Cover must be open in order for the cutter buttons to function in this manner.
4. While pressing either of the Printer buttons, it may also be necessary to gently pull on the appropriate end of the print media to help clear out the media. If pressing either of the buttons does not seem to move the print media and it appears to be stuck, refer to the steps in Part I of this section.
5. Once the jam has been cleared, replace the Print Cartridge and Media Tray Assembly, and close the Top Cover. Select the Cancel Print button in the 32-Bit Print Spooler to cancel the print job, and press the printer's Cancel button to clear its memory. Resend the print job. Note that if the 32-Bit Print Spooler's **Save last job for reprint** option was selected, you simply have to select the spooler's **Print** button to resend the job.

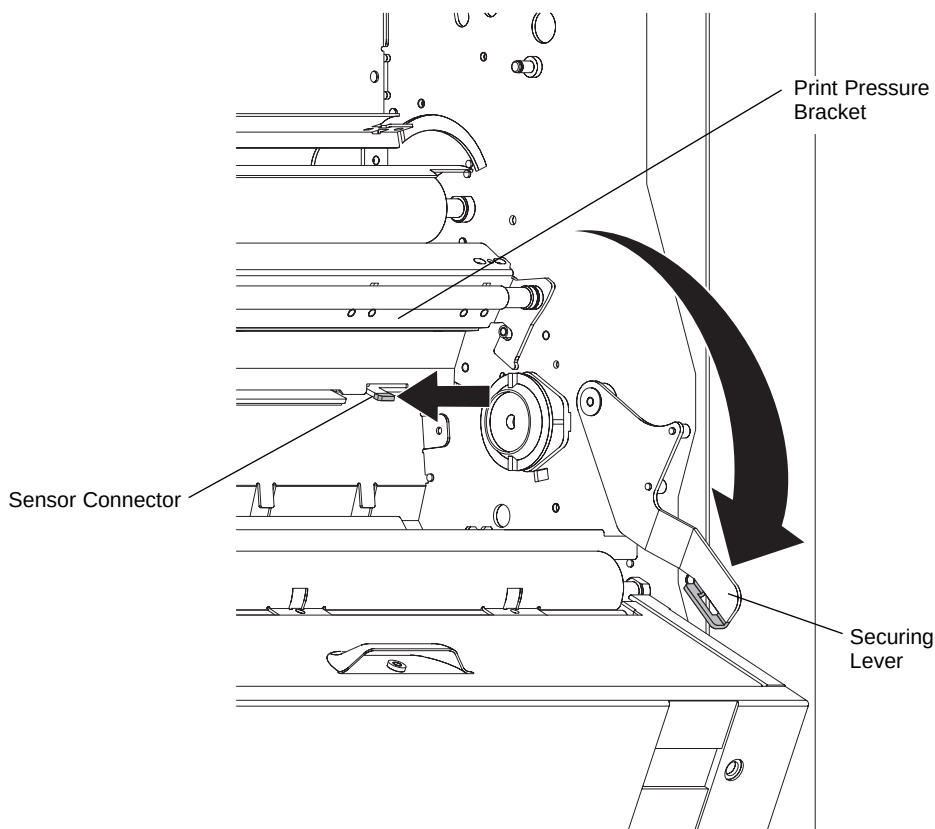
I. CLEARING A MAJOR PRINT MEDIA JAM

Although rare, print media can sometimes begin to separate from its backing while printing. When this happens, it can occasionally become stuck to the interior rollers causing the media to jam and halt the print process. If this happens, do not attempt to rip the media from the printer. This will cause the media to tear, leaving media fragments within the printer. Instead, use the following procedure to clear the print media from the printer.

1. Open the printer's Top Cover by pressing the Cover Release Button.
2. Remove the Ribbon Cartridge from the printer.
3. Locate the Print Pressure Bracket indicated in the illustration below. This bracket runs the entire width of the printer's interior and must be removed in order to clear out the print media jam.

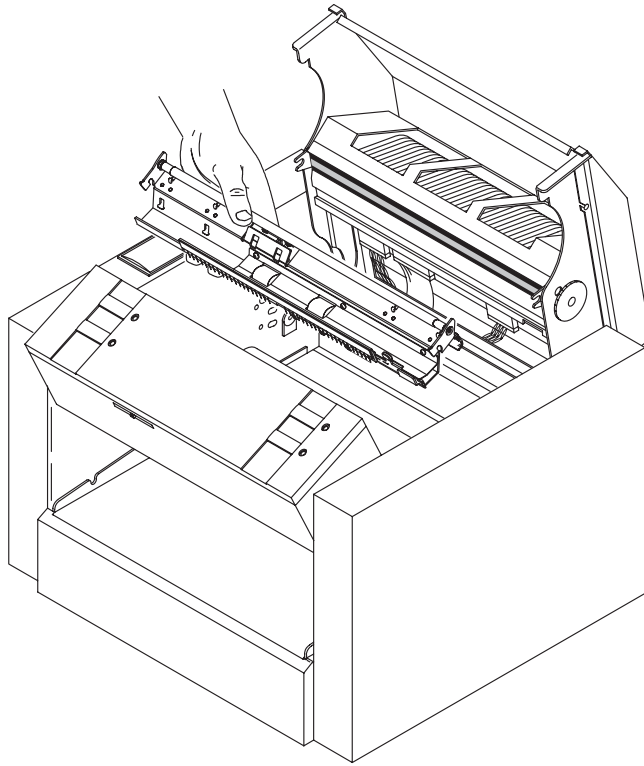


4. The Print Pressure Bracket is held in place by two Securing Levers and is connected to the printer electronically by its Sensor Connector. Each of these items is marked with a yellow colored end. To remove the bracket, first **turn the printer power OFF**, then disconnect the Sensor Connector by sliding it toward the left-hand side of the printer until it stops.



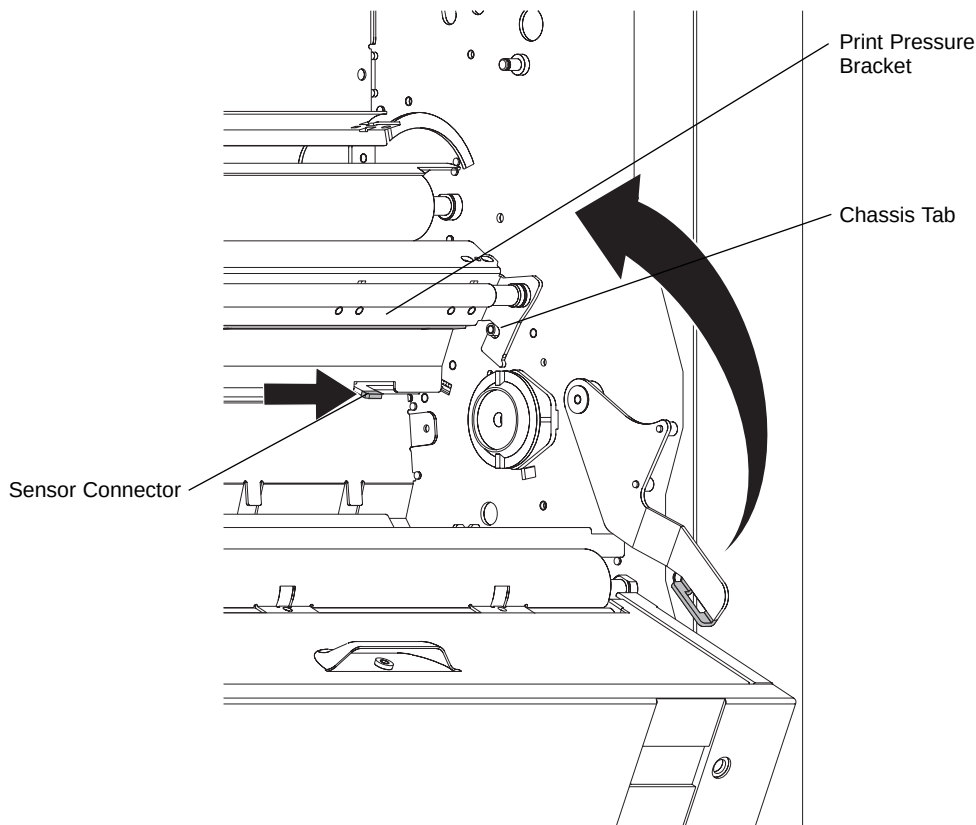
5. Next, firmly pull up on each Securing Lever until each is in its fully opened position as shown above. Some force is required to unlatch these Securing Levers. Note that lifting both the left and right Securing Levers simultaneously may reduce the effort required to unlatch the levers.

6. Once the bracket is disconnected and unlatched, gently lift it from the printer.



7. Once the bracket is removed, clear all traces of the jammed media from the printer. If necessary, turn the printer power back ON, and press the Cancel and On-Line buttons to rotate and view all areas of the rollers.

8. When all print media is cleared, **turn the printer power OFF**, then insert the Print Pressure Bracket back into its original position within the printer. Be sure the Print Pressure Bracket is seated properly on top of the Chassis Tab on each side of the printer's interior as shown.



9. Once the Print Pressure Bracket is in the proper position, firmly push each Securing Lever all the way down until each is in its locked position. Some force is required to latch these Securing Levers.
10. Reconnect the Sensor Connector by sliding it toward the right-hand side of the printer until it stops.
11. Replace the Print Cartridge and close the Top Cover. Select the Cancel Print button in the 32-Bit Print Spooler to cancel the print job, and press the printer's Cancel button to clear its memory. Resend the print job. Note that if the 32-Bit Print Spooler's **Save last job for reprint** option was selected, you simply have to select the spooler's **Print** button to resend the job.

NOTE: After the Print Pressure Bracket has been placed back into the printer, you may need to recalibrate the ribbon sensor according to the calibration procedure at the end of Section 9.

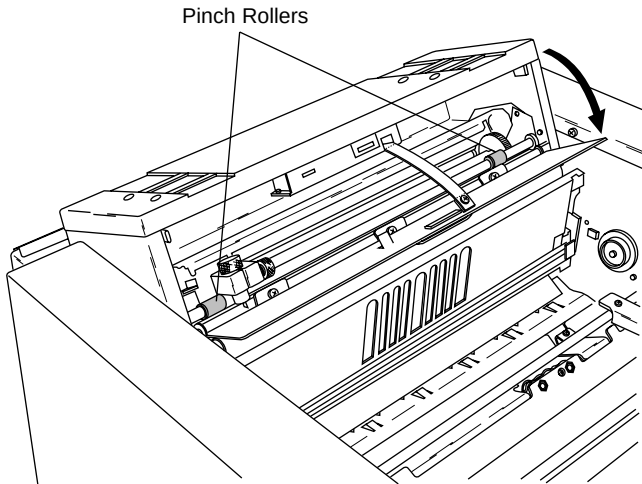
J. CLEANING THE PINCH ROLLERS

Two sets of Pinch Rollers can be found inside the unit. The first set is located within the unit's cutter. The second set is located next to the printer's Platen Roller. These Pinch Rollers serve to hold print media securely so it can be accurately printed and cut.

If using the #200-Series (dye-sublimation) or #300-Series (resin) print supplies, you should not need to clean these rollers. If using the #100-Series (wax/resin) print supplies, you should clean these rollers only if you notice faint streaks of color running along each outside edge of the printed page. These streaks are caused by the gradual transfer of the wax/resin inks from the printed page to the Pinch Rollers. Refer to the following steps to clean these rollers.

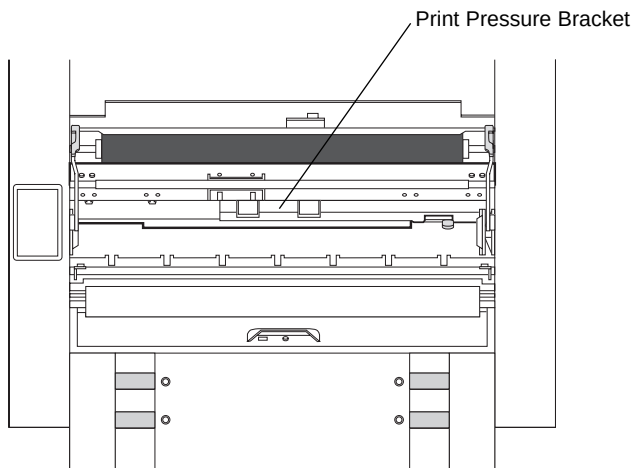
NOTE: If you are using the #100-Series supplies and wish to avoid having to clean the Pinch Rollers, simply leave a 1.25" (31.8mm) margin along each outside edge of the sheet. This will assure that the wax/resin inks will not come into contact with these rollers.

1. Open the printer's Top Cover by pressing the Cover Release Button.
2. Remove the Ribbon Cartridge from the printer.
3. Open the Cutter Door by pulling down on the door's handle.
4. Locate the two, small gray Pinch Rollers just inside the cutter.

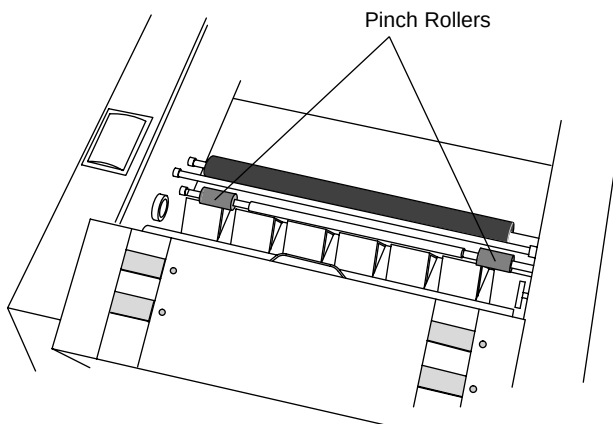


5. Use a Cleaning Pad from the Printer Cleaning Kit or a soft, lint-free cloth *slightly* moistened with isopropyl alcohol to thoroughly wipe the rollers clean. While wiping, manually rotate the rollers with your fingertips.
6. After the rollers are clean and *completely dry*, close the Cutter Door.

7. Next, clean the Pinch Rollers within the printer. To do this, you must first remove the Print Pressure Bracket from the printer. Refer to the steps in Part I of this section for instructions on removing this bracket.



8. Once the Print Pressure Bracket is removed, use a Cleaning Pad from the Printer Cleaning Kit or a soft, lint-free cloth *slightly* moistened with isopropyl alcohol to thoroughly wipe the Pinch Rollers clean. While wiping, use the Cancel and On-Line buttons of the Printer controls to rotate the Pinch Rollers.



9. After the roller is clean and *completely dry*, re-install the Print Pressure Bracket according to the steps in Part I of this section.
10. Replace the Ribbon Cartridge and close the printer's cover.

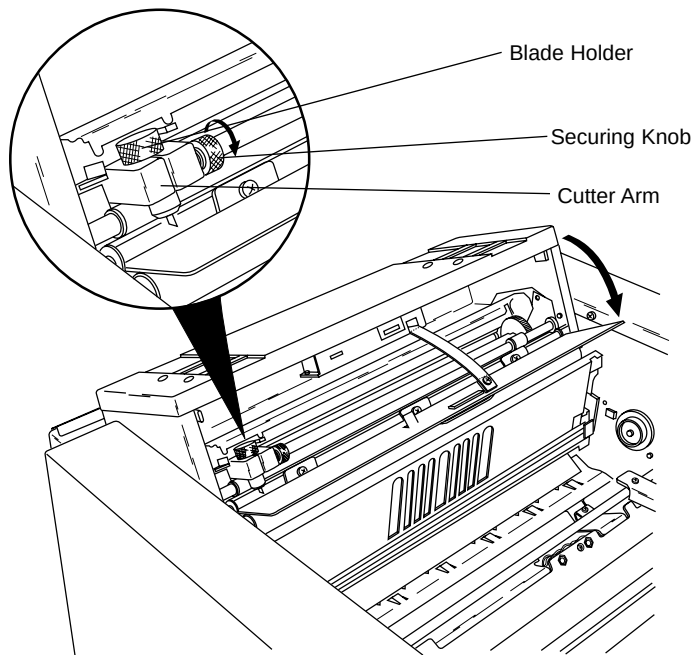
K. REPLACING THE CUTTER BLADE

The cutter uses a tiny razor-sharp blade to kiss-cut its output. Over time, this blade will eventually begin to grow dull. When this happens, you may notice one or all of the following symptoms:

- The cut line is rough or jagged as if the media were being ripped instead of sliced.
- If the cut line has sharp, pointed corners, some of these corners start to lift up as they are cut.
- Excess cutting pressure is required for print media which originally required far less pressure.
- Print media which normally cuts fine, starts to stall the cutter as cut pressure is increased.

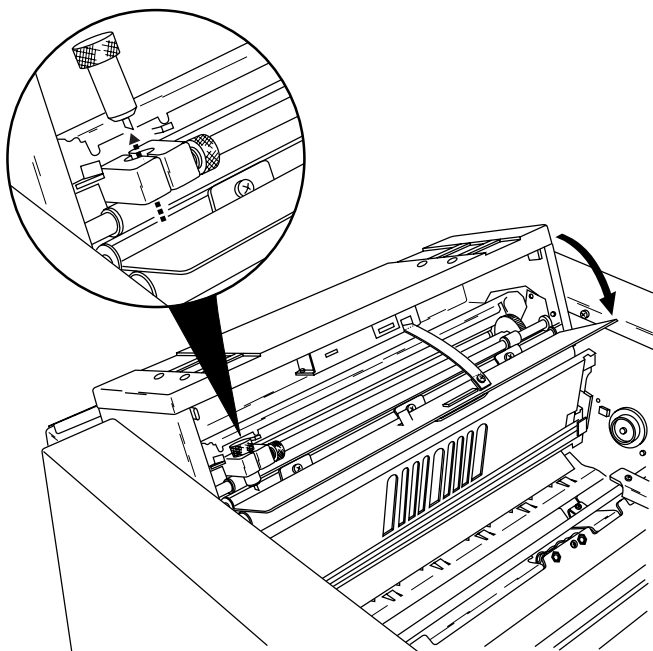
If any of these symptoms begin to consistently occur, replace the Cutter Blade according to the following steps.

1. Open the Cutter Door by pulling down on the door's handle.
2. Locate the black, plastic Cutter Arm which holds the aluminum Blade Holder in place.



3. Loosen the gold-colored Securing Knob by turning it toward the rear of the printer.

4. Remove the aluminum Blade Holder.

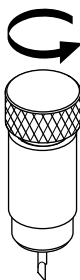


CAUTION!



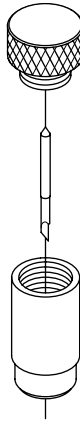
THE CUTTER BLADE IS RAZOR-SHARP AND CAN EASILY CUT YOU. BE EXTREMELY CAREFUL WHEN REMOVING THIS BLADE!

5. Unscrew and remove the top of the Blade Holder.



6. Tip the base of the holder upside down and remove the blade.

7. Insert the new blade into the base of the holder and replace the holder's screw-on top.



8. Place the Blade Holder back into the Cutter Arm and retighten the gold-colored Securing Knob by turning it toward the front of the printer. Tighten only until the Blade Holder fits securely within the Cutter Arm. To verify proper tightness, try rotating the Blade Holder clockwise within the Cutter Arm. If it rotates, the Securing Knob needs to be further tightened. **Do not over-tighten!**

Troubleshooting

9

If you have difficulty operating your digital press, the troubleshooting suggestions in this section should, in most cases, solve the problem. If you still have difficulty after trying these suggestions, call the manufacturer's Technical Support Group or your authorized reseller. Customer and technical support representatives are available Monday through Friday, 7:30 AM to 6:00 PM Central Standard Time. You may also leave a message 24-hours a day if you'd like to have a representative call you back the next business day. Technical support and printer driver upgrades can also be obtained by connecting to <http://www.fargo.com>.

The printer does not even begin to print.

Symptoms: Nothing happens or an error message comes up in the Windows application program.

- Make sure that the power cord is plugged in securely on both ends and that the printer is turned ON. Confirm power is applied. The Cancel and On-Line LED lights of the Printer controls and the Cancel LED light of the Cutter controls must be illuminated in order for the digital press to function.
- Make certain that the printer cable is securely connected. An error message in the software application telling you that the printer is not responding is usually due to a missing or defective parallel interface cable. Always use a shielded, bi-directional parallel cable (preferably an I-EEE 1284 type cable) that is no longer than 6 feet in length.

The print job rasterizes, but the unit doesn't print.

Symptoms: Your computer seems to raster the image and send it to the printer but the printer does not respond.

- You may be in need of more hard drive space. As a rule, you should always maintain at least 200 MB of free space on your hard disk.

My prints have thin lines or a dark band across the width of the print.

Symptoms: The printer seems to “stutter” or print unusually slow, and when the print is finished, it has many thin lines across the entire width of the print. Or, it has a dark band across the first inch of the print while the rest of the print is much lighter.

- This signifies that your computer is not sending data to the printer fast enough. Be sure that your computer's parallel port mode is set to ECP and that you are printing through the Fast 32-Bit Spooler. See Section 6-B and C for instructions on checking your parallel port mode and on using this spooler.
- If you are not able to use the 32-Bit Print Spooler, try printing with the **Write Direct to Port** option selected from within the printer driver. This option devotes all of your system resources to the current print job, thereby increasing the rate of data transmission. Note that this option will tie-up your system until the print job is complete.
- If you are unable to print through either the 32-Bit Print Spooler or the Write Direct To Port option, try printing through the system print spooler of Windows 95/98. This spooler is provided with Windows and can be used with nearly any type of printer. The following steps will help you optimize this standard spooler for printing to the digital press:
 1. Click the **Start** button, point to **Settings**, and select **Printers**. When the Printers window appears, click on the Digital Label Press 2 icon using the *right* mouse button, and select the **Properties** option.
 2. Select the **Details** tab, then select the **Spool Settings** button. Select the **Print directly to the printer** option and click on **OK**.
 3. Again from the Details tab, select the **Port Settings** button. Deselect both the **Check Port state before printing** option and the **Spool MS-DOS print jobs** option, and click on **OK**.
 4. Increase the **Transmission retry** value of the Details tab from 45 to **900**. Click on **OK** to close the Properties window.

The On-Line LED light under the Printer controls is flashing rapidly.

This indicates an error has occurred with the print media or with the print ribbon. If such an error occurs before the digital press actually starts to print, the error is recoverable. Correct the problem and press the On-Line button to resume printing.

If the error occurs after the digital press starts printing, select the Cancel Print button in the 32-Bit Print Spooler to cancel the print job, and correct the problem. Then, press the printer's Cancel button to clear its memory, and resend the print job. If necessary, you can also reset the printer by simultaneously pressing the Cutter's Cancel and Pause buttons or by simply turning the unit's power OFF and ON (see Section 3-D for more information on the button functions). Note that if the 32-Bit Print Spooler's **Save last job for reprint** option was selected, you simply have to select the spooler's **Print** button to resend the job. Refer to the following list for possible causes to this printer error condition.

- Check that you have properly loaded print media and a print ribbon and that you have not run out of either. Replace media as required (see Section 4).
- Make sure the Ribbon Type option selected in the printer driver matches the type of ribbon currently installed. (see Section 6-D for Ribbon Type information).
- Check that you have loaded compatible print supplies according to the descriptions given in Section 4. Remember, only supplies within the same #100, #200, or #300-Series can be used with one another.
- Check to see if the print media is jammed or is not feeding effectively from the Media Supply Tray. If jammed, clear according to Section 8-H. If not feeding, separate the print media to assure it is not sticking together. Also, be sure the Media Supply Tray's In-Feed Clutch is set properly according to Section 4-H. You may also need to clean the In-Feed Rollers according to Section 8-F.
- Check to see if the ribbon is jammed down into the Platen Roller. If so, clear the jam according to Section 8-G.
- If you have removed the Print Pressure Bracket according to the instructions in Section 8-I, be sure it was re-installed properly according to these same instructions.

The On-Line LED light under the Printer controls or the Cancel LED light under the Cutter controls is flashing erratically.

This indicates a data transmission error. In other words, the digital press is not properly receiving the print data. If such an error occurs, select the Cancel Print button in the 32-Bit Print Spooler to cancel the print job, and correct the problem. Then, press the printer's Cancel button to clear its memory, and resend the print job. If necessary, you can also reset the printer by simultaneously pressing the Cutter's Cancel and Pause buttons or by simply turning the printer power OFF and ON (see Section 3-D for more information on the button functions). Note that if the 32-Bit Print Spooler's **Save last job for reprint** option was selected, you simply have to select the spooler's **Print** button to resend the job. Refer to the following list for possible causes to this printer error condition.

- If you have canceled the printer during a print job, is the computer still trying to send the print job? If so, cancel the print job in the software and resend it.
- This condition can sometimes be caused by using a substandard interface cable. Always use a shielded, bi-directional parallel cable (preferably an I-EEE 1284 type cable) that is no longer than 6 feet in length.
- Do you have the unit connected through a switch box? If so, connect it directly to your computer. Do not connect the digital press through a switch box, as this can interfere with the flow of print data.
- If using the system print spooler of Windows and your printer starts printing and stops, you may need to increase your Transmission Retry Value. To do this, right-click on the Digital Label Press 2 icon within the Printers window. Then select **Properties** and click on the **Details** tab. Under Timeout Settings, increase the Transmission Retry Value from 45 to 900.

The Cancel LED light under the Cutter controls is flashing rapidly.

This indicates an error has occurred with the cutter. If such an error occurs, correct the problem and press the Cutter's Pause button to resume cutting (see Section 3-D for more information on the Cutter button functions). Refer to the following list for possible causes to this cutter error condition.

- Make sure the cutter door is securely shut.
- If the cutter stops cutting in the middle of a cut job, this is considered a cutter "stall." Cutter stalls can be caused if the cut pressure is set too high or if the cutter blade has become dull. Check and/or replace the cutter blade according to Section 8-K.
- The cutter may not be sensing the cutter target due to improper printing of the target. Check that the print media is stacked and loaded evenly within the Supply Tray and that the tray's Media Guides are pushed securely against the media stack. Also, check that each cutter target is being completely printed.

The On-Line and Cancel LED lights under the Printer controls flash together, then the On-Line light flashes alone several times.

- This indicates either the printer driver or the printer's firmware version is not compatible with the other and that one or the other is outdated. Contact Technical Support for information on the most recent versions of each.
- This can also indicate a more serious printer error has occurred. Contact Technical Support for details.

The print media or ribbon is jammed.

Symptoms: The digital press stops printing and the Printer On-Line LED light is flashing.

- Check that you have properly loaded print media and a print ribbon according to the instructions in Section 4. Print media should always be loaded with the print side facing down (backing side up).
- Check that you have loaded compatible print supplies according to the descriptions given in Section 4. Remember, only supplies within the same #100, #200, or #300-Series can be used with one another.
- If the print media is not feeding effectively from the Media Supply Tray, separate the print media to assure it is not sticking together. Also, be sure the Media Supply Tray's In-Feed Clutch is set properly according to Section 4-H. You may also need to clean the In-Feed Rollers according to Section 8-F.
- If you have removed the Print Pressure Bracket according to the instructions in Section 8-I, be sure it was re-installed properly according to these same instructions. In particular, check that the Sensor Connector was properly reconnected.
- Clear all jams according to Section 8-G, H, or I.

My prints have thin lines in them.

Symptoms: Random lines appear in output that travel the entire length of the print, from top to bottom.

- Most likely due to dust or other debris on the Printhead. Review the proper procedures for Printhead cleaning in Section 8-B.

My #100-Series wax/resin prints have streaks in them.

Symptoms: Faint streaks appear in wax/resin output that always travel along each outside edge of the printed sheet.

- Most likely due to dirty Pinch Rollers. See Section 8-J for instructions on cleaning these rollers and on what you can do to prevent such streaks in the future.

My prints have blotches or spots in them.

Symptoms: Small spots appear randomly on the print with no ink or different colors of ink.

- Most likely due to dust inside the printer. Review the procedures in Section 8-D for cleaning the inside of the printer.
- Can also be caused by dust accumulation on the ribbon or print media. Always store print supplies in the original packaging or in some other suitable dust-free environment.
- If the spots appear mainly down the center of the page, this may also indicate that the printer's Feed Rollers need to be cleaned. Clean according to Section 8-F.

My prints have poor or faded print quality.

- Check that you have properly loaded print media and a print ribbon according to the instructions in Section 4. Print media should always be loaded with the print side facing down (backing side up).
- Check that you have loaded compatible print supplies according to the descriptions given in Section 4. Remember, only supplies within the same #100, #200, or #300-Series can be used with one another.
- You are using too much heat or not enough heat to properly transfer ink. Adjust the Intensity control in the printer driver up or down as needed.

My dye-sublimation prints look jaggy or pixelated.

Symptoms: Prints do not look smooth or continuous, but rather grainy and unclear.

- For best photo-realistic output, you should always use high resolution 24 bit images. If scanning an image, always scan the image at a 24 bit color setting, at the same size at which you will be printing, and at 300 dpi. If you stretch or "blow up" a small or low resolution image, you will always get a pixelated or grainy effect when printing.
- Try selecting the **Fine** Anti-Aliasing option from the Preferences tab of PressPrint's Print window. This option should be selected only for dye-sublimation prints and causes printed images to appear more smoothly around the edges.

The print media won't feed and the Printer On-line LED is flashing rapidly.

Symptoms: The printer starts to make noise like everything is fine, but no print media feeds.

- Check that you have properly loaded print media and a print ribbon according to the instructions in Section 4 and that you have not over-loaded the tray. Do not attempt to load more than 50 sheets of print media. Also, be sure the print media stack fits loosely *beneath* the Media Supply Tray's three Media Guide Tabs (see Section 4-G).
- If the print media is not feeding effectively from the Media Supply Tray, separate the print media to assure it is not sticking together. Also, be sure the Media Supply Tray's In-Feed Clutch is set properly according to Section 4-H. You may also need to clean the In-Feed Rollers according to Section 8-F.

The cutter is not functioning as it normally does, and/or the quality of the cut line has degraded.*Symptoms:*

- *The cut line is rough or jagged as if the media were being ripped instead of sliced.*
 - *If the cut line has sharp, pointed corners, some of these corners start to lift up as they are cut.*
 - *Excess cutting pressure is required for print media which originally required far less pressure.*
 - *Print media which normally cuts fine, starts to stall the cutter as cut pressure is increased.*
- Most likely due to a dull cutter blade. Check and/or replace the cutter blade according to Section 8-K.

The cut line is not centered around the printed object.

- Be sure the cutter settings are configured properly according to Section 7-C.
- Be sure the blank size within PressPrint is set to the default size of 11.71" x 17.3".

The cutter is cutting too deeply or is not cutting deeply enough.

- The various print media will require unique cutter pressure settings. Use the Cutting Pressure Slide to adjust the cut pressure accordingly. See Section 3-D for instructions on properly adjusting the cutting pressure.

My image gets cut off at the top or bottom (or on the side in Landscape mode).

- Remember, there is an unprintable area at the top and bottom of all print media. This is necessary so that the printer can grip the print media while feeding it back and forth. See Paper Size explanation in Section 6-D for more print area information. Be sure images fall within this print area and that the Layout\Blank Size option in PressPrint is set to 11.710" x 17.3".

Multiple sheets of print media feed at the same time.

- Be sure to fan or separate the media before loading. Static and moisture tend to attract two sheets together. This is especially true with the #300-Series clear or white cast vinyl. Also, be sure the Media Supply Tray's In-Feed Clutch is set properly according to Section 4-H.

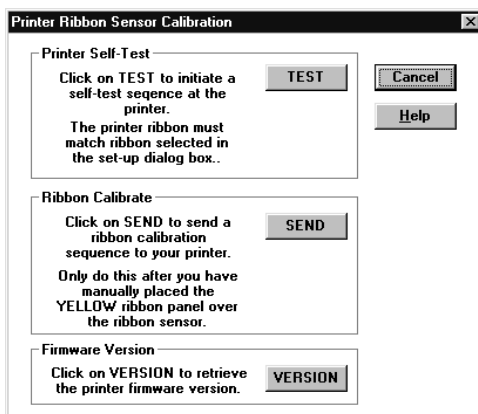
Areas of my prints are “scrambled” or look like bar codes.

- This signifies a data transmission error. This could be caused by a faulty or substandard printer cable or parallel port. Try switching to a different, higher quality parallel cable. For best results, use a shielded, bi-directional I-EEE 1284 parallel cable no longer than 6 feet in length.

The ribbon sensor needs adjustment.

Symptoms: My full-color output is printing completely off-color on all or part of the sheet, and/or the error message “The printer did not detect the proper ribbon panels...” displays.

- Check that the Ribbon Type option in the printer driver is set according to the ribbon currently installed (see Section 4-B and Section 6-D). If it is, and the error persists, your printer's ribbon sensor is most likely in need of adjustment. Refer to the following steps to adjust the unit's ribbon sensor.
1. Open the Top Cover.
 2. Manually wind the ribbon forward until the *beginning* of the ribbon's YELLOW panel touches the ribbon take-up core (the core with the used ribbon on it). This will properly position the yellow panel over the unit's ribbon sensor.
 3. Close the Top Cover and verify that the printer is properly connected to your computer.
 4. Go to the printer driver setup window (see Section 6-D) and click on the **Calibrate** button. The Printer Ribbon Sensor Calibration window appears.



5. Click on the **Send** button of the Ribbon Calibrate box to download the ribbon sensor calibration sequence. While the ribbon sensor is recalibrating, both the On-Line and Cancel LED lights of the Printer controls will flash simultaneously. When calibration is complete, both lights will remain solid. You can now resend your print job.

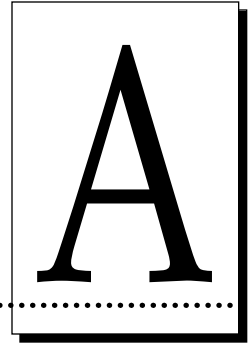
Technical Specifications

10

Printing Methods:	Dye-sublimation — resin thermal transfer — wax/resin thermal transfer
Printing Resolution:	300 x 300 DPI
Colors:	Up to 16.7 million
Color Panel Order:	
Color:	Yellow, Magenta, Cyan, Overlay (if used)
Monochrome:	Continuous single color
Printing Speed:	
Dye-Sublimation (CMYO):	Approximately 6 minutes per page
Resin Thermal Transfer (CMY):	Approximately 3 minutes per page
Wax/Resin Thermal Transfer:	Approximately 1 minute per page
Paper Feed Method:	Friction feed
Paper Loading:	
Supply Tray capacity:	Approximately 50 sheets
Output Rack capacity:	Approximately 50 sheets
Media Size:	B/A3-Super 12" x 20" (305 x 508mm)
Printing Area:	11.71" x 17.3" (297.4 x 439.4mm)
Ink Ribbon:	
Dye-sublimation:	3-Color with overlay: CMYO; 50 prints/roll
Resin thermal transfer:	3-Color: CMY; 50 prints/roll
	Spot Colors: 200 prints/roll
Wax/resin thermal transfer:	Spot Colors: 200 prints/roll
Printer Driver:	Windows 95
Interface:	Centronics-type parallel

Dimensions:	18"W x 13.5"H x 15.75"D (32.25"D with paper tray installed); 45.7cmW x 34.3cmH x 40cmD (82cmD with paper tray installed)
Weight:	71 lbs. (32 kg)
Temperature:	
Operating:	5°C to 35°C
Storage:	-20°C to 55°C (5°C to 35°C guaranteed for Ink Ribbon; -5°C to 45°C for up to one month is normally acceptable but not guaranteed)
Humidity:	
Operating:	20% to 80% (RH non-condensation)
Storage:	15% to 85% (RH non-condensation)
Supply Voltage:	110-120 / 220-240 VAC
Supply Frequency:	50 / 60 Hz
Safety:	UL1950, TÜV-GS (IEC950)
EMC:	FCC Class A, CRC c1374 Class A, CISPR 22-B, TÜV-EMC
CE:	Self certified based on IEC 801-2-3-4, CISPR 22-B and IEC 950 certification

Appendix A: Interfacing Information



A. INTRODUCTION

The digital press is equipped with a standard 8-bit Centronics-type parallel data communications port. This is the means by which the printer receives data from your computer. This chapter describes the pin assignments, protocol, and signal specifications for the unit's parallel port.

B. CENTRONICS-TYPE PARALLEL INTERFACE

The Centronics-type parallel interface is the most widely used printer interface due to its simplicity, speed, and standardization throughout the PC industry. The printer's parallel interface connector is a standard 36-pin Amp type with two metal-wire retaining clips and is ECP (Extended Capabilities Port) compatible. It mates with a shielded, bi-directional PC to printer parallel cable. If using a parallel cable other than the one supplied with your printer, always use an IEEE 1284 parallel cable which is less than 6 feet in length.

Pin assignments are as follows:

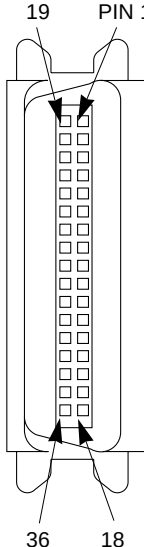
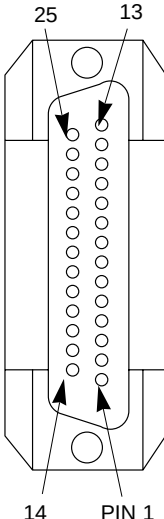
	WIRE DIAGRAM		
	DB36P	DB25P	
	1	1	
	2	2	
	3	3	
	4	4	
	5	5	
	6	6	
	7	7	
	8	8	
	9	9	
	10	10	
	11	11	
	12	12	
	13	13	
14	14		
32	15		
31	16		
36	17		
19 THROUGH 30	19 THROUGH 25		
SHELL	SHELL		

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